

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12295** **COLUMBIA CREEK DAM**

Bay-wide Diadromous Tier	11
Bay-wide Resident Tier	14
Bay-wide Brook Trout Tier	N/A
NID ID	MD00293
State ID	12295
River Name	
Dam Height (ft)	13
Dam Type	Earth
Latitude	38.4172
Longitude	-75.7343
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Rewastico Creek
HUC 10	Lower Nanticoke River
HUC 8	Nanticoke
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.24	% Tree Cover in ARA of Upstream Network	58.92
% Natural Cover in Upstream Drainage Area	55.08	% Tree Cover in ARA of Downstream Network	41.79
% Forested in Upstream Drainage Area	25.98	% Herbaceous Cover in ARA of Upstream Network	33.57
% Agriculture in Upstream Drainage Area	42.34	% Herbaceous Cover in ARA of Downstream Network	52.49
% Natural Cover in ARA of Upstream Network	66.53	% Barren Cover in ARA of Upstream Network	0.39
% Natural Cover in ARA of Downstream Network	40.11	% Barren Cover in ARA of Downstream Network	0.16
% Forest Cover in ARA of Upstream Network	27.52	% Road Impervious in ARA of Upstream Network	0.5
% Forest Cover in ARA of Downstream Network	20.27	% Road Impervious in ARA of Downstream Network	1.3
% Agricultural Cover in ARA of Upstream Network	31.19	% Other Impervious in ARA of Upstream Network	2.51
% Agricultural Cover in ARA of Downstream Network	49.67	% Other Impervious in ARA of Downstream Network	3.07
% Impervious Surf in ARA of Upstream Network	0.2		
% Impervious Surf in ARA of Downstream Network	2.05		

Metric descriptions can be found at:

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

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12295**

COLUMBIA CREEK DAM

Network, System Type and Condition

Functional Upstream Network (mi)	1.19	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	11.48	# Downstream Natural Barriers	0
Absolute Gain (mi)	1.19	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	1
NFHAP Cumulative Disturbance Index	Moderate		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	98.44		
% Conserved Land in 100m Buffer of Downstream Network	9.97		
Density of Crossings in Upstream Network Watershed (#/m2)	0		
Density of Crossings in Downstream Network Watershed (#/m2)	0.56		
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	Historical	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	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	Historical		
# 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	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	46
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	1
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	POOR
MD MBSS Benthic IBI Stream Health	Fair
MD MBSS Fish IBI Stream Health	Poor
MD MBSS Combined IBI Stream Health	Fair
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	N/A

Metric descriptions can be found at:

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