

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_15-083** **CARGILL**

Bay-wide Diadromous Tier	12
Bay-wide Resident Tier	8
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	15-083
River Name	Muddy Run
Dam Height (ft)	8
Dam Type	Rockfill
Latitude	39.833
Longitude	-76.004
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Muddy Run-East Branch Octorar
HUC 10	East Branch Octoraro Creek
HUC 8	Lower Susquehanna
HUC 6	Lower Susquehanna
HUC 4	Susquehanna



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.91	% Tree Cover in ARA of Upstream Network	47.65
% Natural Cover in Upstream Drainage Area	21.72	% Tree Cover in ARA of Downstream Network	41.12
% Forested in Upstream Drainage Area	17.59	% Herbaceous Cover in ARA of Upstream Network	48.58
% Agriculture in Upstream Drainage Area	69.54	% Herbaceous Cover in ARA of Downstream Network	51.99
% Natural Cover in ARA of Upstream Network	47.22	% Barren Cover in ARA of Upstream Network	0.18
% Natural Cover in ARA of Downstream Network	43.28	% Barren Cover in ARA of Downstream Network	0.26
% Forest Cover in ARA of Upstream Network	35.78	% Road Impervious in ARA of Upstream Network	0.84
% Forest Cover in ARA of Downstream Network	30.02	% Road Impervious in ARA of Downstream Network	0.77
% Agricultural Cover in ARA of Upstream Network	45.8	% Other Impervious in ARA of Upstream Network	1.46
% Agricultural Cover in ARA of Downstream Network	49.91	% Other Impervious in ARA of Downstream Network	1.56
% Impervious Surf in ARA of Upstream Network	0.52		
% Impervious Surf in ARA of Downstream Network	0.84		

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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Network, System Type and Condition

Functional Upstream Network (mi)	25.94	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	193.93	# Downstream Natural Barriers	0
Absolute Gain (mi)	25.94	# Downstream Hydropower Dams	1
# Size Classes in Total Network	3	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	2
NFHAP Cumulative Disturbance Index	High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	3.37		
% Conserved Land in 100m Buffer of Downstream Network	2.69		
Density of Crossings in Upstream Network Watershed (#/m2)	1.03		
Density of Crossings in Downstream Network Watershed (#/m2)	0.85		
Density of off-channel dams in Upstream Network Watershed (#/m2)	0		
Density of off-channel dams in Downstream Network Watershed (#/m2)	0.01		

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	None Documented
Presence of 1 or More Downstream Anadromous Species	Historical		
# Diadromous Species Downstream (incl eel)	0		

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)	No
Native Fish Species Richness (HUC8)	53
# Rare Fish (HUC8)	2
# Rare Mussel (HUC8)	3
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	POOR
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	N/A
PA IBI Stream Health	Insufficient Dat

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