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)	
% Impervious Surface in Upstream Drainage Area	0.91
% Natural Cover in Upstream Drainage Area	21.72
% Forested in Upstream Drainage Area	17.59
% Agriculture in Upstream Drainage Area	69.54
% Natural Cover in ARA of Upstream Network	47.22
% Natural Cover in ARA of Downstream Network	43.28
% Forest Cover in ARA of Upstream Network	35.78
% Forest Cover in ARA of Downstream Network	30.02
% Agricultral Cover in ARA of Upstream Network	45.8
% Agricultral Cover in ARA of Downstream Network	49.91
% Impervious Surf in ARA of Upstream Network	0.52
% Impervious Surf in ARA of Downstream Network	0.84

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	47.65
% Tree Cover in ARA of Downstream Network	41.12
% Herbaceaous Cover in ARA of Upstream Network	48.58
% Herbaceaous Cover in ARA of Downstream Network	51.99
% Barren Cover in ARA of Upstream Network	0.18
% Barren Cover in ARA of Downstream Network	0.26
% Road Impervious in ARA of Upstream Network	0.84
% Road Impervious in ARA of Downstream Network	0.77
% Other Impervious in ARA of Upstream Network	1.46
% Other Impervious in ARA of Downstream Network	1.56

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

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

Network, System Type and Condition

Functional Upstream Network (mi)	25.94	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	193.93	# Downsteam 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
One or More DS Anadromous Species	Historical	# Diadromous Sp Dnstrm (incl eel)	0

Resident Fish and Rare Species

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
Globally rare or fed listed fish/mussel sp HUC12	Yes
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	Yes

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 Data

Rare fish or mussel sp in HUC12	Yes
Rare fish or mussel in upstream or downstream functional network	Yes

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy