

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_36-256** **MUDDY RUN**

Bay-wide Diadromous Tier	12
Bay-wide Resident Tier	2
Bay-wide Brook Trout Tier	N/A
NID ID	PA00266
State ID	36-256
River Name	Muddy Run
Dam Height (ft)	260
Dam Type	Earth
Latitude	39.8168
Longitude	-76.3009
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Muddy Run-Susquehanna River
HUC 10	Susquehanna River
HUC 8	Lower Susquehanna
HUC 6	Lower Susquehanna
HUC 4	Susquehanna



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.9	% Tree Cover in ARA of Upstream Network	27.55
% Natural Cover in Upstream Drainage Area	51.87	% Tree Cover in ARA of Downstream Network	34.61
% Forested in Upstream Drainage Area	31.61	% Herbaceous Cover in ARA of Upstream Network	13.7
% Agriculture in Upstream Drainage Area	40.66	% Herbaceous Cover in ARA of Downstream Network	22.82
% Natural Cover in ARA of Upstream Network	93.44	% Barren Cover in ARA of Upstream Network	3.23
% Natural Cover in ARA of Downstream Network	74.81	% Barren Cover in ARA of Downstream Network	0.34
% Forest Cover in ARA of Upstream Network	25.86	% Road Impervious in ARA of Upstream Network	0.1
% Forest Cover in ARA of Downstream Network	28.95	% Road Impervious in ARA of Downstream Network	0.51
% Agricultural Cover in ARA of Upstream Network	4.08	% Other Impervious in ARA of Upstream Network	0.25
% Agricultural Cover in ARA of Downstream Network	20.6	% Other Impervious in ARA of Downstream Network	1.48
% Impervious Surf in ARA of Upstream Network	0.6		
% Impervious Surf in ARA of Downstream Network	0.59		

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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MUDDY RUN

Network, System Type and Condition

Functional Upstream Network (mi)	6.17	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	183.84	# Downstream Natural Barriers	0
Absolute Gain (mi)	6.17	# Downstream Hydropower Dams	1
# Size Classes in Total Network	4	# Downstream Dams with Passage	1
# Upstream Network Size Classes	2	# of Downstream Barriers	1
NFHAP Cumulative Disturbance Index	High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0		
% Conserved Land in 100m Buffer of Downstream Network	2.58		
Density of Crossings in Upstream Network Watershed (#/m2)	0.58		
Density of Crossings in Downstream Network Watershed (#/m2)	0.65		
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
One or More DS Anadromous Species	None Docume	# Diadromous Sp Dnstrm (incl eel)	1

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	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	Yes

Stream Health

Chesapeake Bay Program Stream Health	FAIR
MD MBSS Benthic IBI Stream Health	Fair
MD MBSS Fish IBI Stream Health	Fair
MD MBSS Combined IBI Stream Health	Fair
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	Good
Rare fish or mussel sp in HUC12	No
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-prot02/images/Metric_Glossary.pdf