

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_36-255**

MUDDY RUN RECREATION

Bay-wide Diadromous Tier	16
Bay-wide Resident Tier	6
Bay-wide Brook Trout Tier	N/A
NID ID	PA01562
State ID	36-255
River Name	Muddy Run
Dam Height (ft)	90
Dam Type	Earth
Latitude	39.8406
Longitude	-76.2831
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	0.57	% Tree Cover in ARA of Upstream Network	46.94
% Natural Cover in Upstream Drainage Area	42.1	% Tree Cover in ARA of Downstream Network	27.55
% Forested in Upstream Drainage Area	34.99	% Herbaceous Cover in ARA of Upstream Network	41.81
% Agriculture in Upstream Drainage Area	50.89	% Herbaceous Cover in ARA of Downstream Network	13.7
% Natural Cover in ARA of Upstream Network	56.64	% Barren Cover in ARA of Upstream Network	0.03
% Natural Cover in ARA of Downstream Network	93.44	% Barren Cover in ARA of Downstream Network	3.23
% Forest Cover in ARA of Upstream Network	41.47	% Road Impervious in ARA of Upstream Network	0.54
% Forest Cover in ARA of Downstream Network	25.86	% Road Impervious in ARA of Downstream Network	0.1
% Agricultural Cover in ARA of Upstream Network	38.63	% Other Impervious in ARA of Upstream Network	1.87
% Agricultural Cover in ARA of Downstream Network	4.08	% Other Impervious in ARA of Downstream Network	0.25
% Impervious Surf in ARA of Upstream Network	0.24		
% Impervious Surf in ARA of Downstream Network	0.6		

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)	8.02	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	14.19	# Downstream Natural Barriers	0
Absolute Gain (mi)	6.17	# Downstream Hydropower Dams	2
# Size Classes in Total Network	2	# Downstream Dams with Passage	1
# Upstream Network Size Classes	1	# of Downstream Barriers	2
NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0		
% Conserved Land in 100m Buffer of Downstream Network	0		
Density of Crossings in Upstream Network Watershed (#/m2)	0.88		
Density of Crossings in Downstream Network Watershed (#/m2)	0.58		
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	None Documented
Presence of 1 or More Downstream Anadromous Species	None Documented		
# 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	No
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	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

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