Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00423** **MOOSE CREEK RESERVOIR**

Bay-wide Diadromous Tier	17
Bay-wide Resident Tier	17
Bay-wide Brook Trout Tier	14
NID ID	PA00423
State ID	PA00423
River Name	Moose Creek
Dam Height (ft)	31
Dam Type	Earth
Latitude	41.0552
Longitude	-78.4728
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Curwensville Dam-West Branch
HUC 10	Upper West Branch Susquehann
HUC 8	Upper West Branch Susquehann
HUC 6	West Branch Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.88
% Natural Cover in Upstream Drainage Area	90.06
% Forested in Upstream Drainage Area	87.48
% Agriculture in Upstream Drainage Area	0.52
% Natural Cover in ARA of Upstream Network	81.7
% Natural Cover in ARA of Downstream Network	38.89
% Forest Cover in ARA of Upstream Network	79.06
% Forest Cover in ARA of Downstream Network	38.89
% Agricultral Cover in ARA of Upstream Network	0.33
% Agricultral Cover in ARA of Downstream Network	31.94
% Impervious Surf in ARA of Upstream Network	1.76
% Impervious Surf in ARA of Downstream Network	2.12

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	86.62
% Tree Cover in ARA of Downstream Network	51.29
% Herbaceaous Cover in ARA of Upstream Network	8.78
% Herbaceaous Cover in ARA of Downstream Network	37.69
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	2.42
% Road Impervious in ARA of Downstream Network	2.6
% Other Impervious in ARA of Upstream Network	1.65
% Other Impervious in ARA of Downstream Network	6.09

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)	9.55	Upstream Size Class Gain (#)	2
Total Functional Network (mi)	9.92	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.37	# Downstream Hydropower Dams	4
# Size Classes in Total Network	2	# Downstream Dams with Passage	6
# Upstream Network Size Classes	2	# of Downstream Barriers	10

NFHAP Cumulative Disturbance Index	Low
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	80.71
% Conserved Land in 100m Buffer of Downstream Network	0
Density of Crossings in Upstream Network Watershed (#/m2)	0.85
Density of Crossings in Downstream Network Watershed (#/m2)	7.58
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 Docume
# Diadromous Species Downstream (incl eel)	0

Resident Fish

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	Yes
Barrier Blocks an EBTJV Catchment	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	29
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	1
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	VERY_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	Fair

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