Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_55-011** **GARDNER**

Bay-wide Diadromous Tier	10
Bay-wide Resident Tier	11
Bay-wide Brook Trout Tier	8
NID ID	
State ID	55-011
River Name	Middle Creek
Dam Height (ft)	6
Dam Type	Concrete
Latitude	40.7617
Longitude	-77.263
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Faylor Lake Dam-South Branch
HUC 10	Middle Creek
HUC 8	Lower Susquehanna-Penns
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.53
% Natural Cover in Upstream Drainage Area	72.92
% Forested in Upstream Drainage Area	72.19
% Agriculture in Upstream Drainage Area	21.96
% Natural Cover in ARA of Upstream Network	66.69
% Natural Cover in ARA of Downstream Network	52.98
% Forest Cover in ARA of Upstream Network	65
% Forest Cover in ARA of Downstream Network	48.33
% Agricultral Cover in ARA of Upstream Network	24.75
% Agricultral Cover in ARA of Downstream Network	37.83
% Impervious Surf in ARA of Upstream Network	0.79
% Impervious Surf in ARA of Downstream Network	1.33

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	67.79
% Tree Cover in ARA of Downstream Network	51.56
% Herbaceaous Cover in ARA of Upstream Network	29.66
% Herbaceaous Cover in ARA of Downstream Network	40.74
% Barren Cover in ARA of Upstream Network	0.2
% Barren Cover in ARA of Downstream Network	0.31
% Road Impervious in ARA of Upstream Network	1.12
% Road Impervious in ARA of Downstream Network	1.49
% Other Impervious in ARA of Upstream Network	1.09
% Other Impervious in ARA of Downstream Network	2.2

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)	23.88	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	55.85	# Downsteam Natural Barriers	0
Absolute Gain (mi)	23.88	# Downstream Hydropower Dams	4
# Size Classes in Total Network	2	# Downstream Dams with Passage	5
# Upstream Network Size Classes	2	# of Downstream Barriers	6

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	14.8
% Conserved Land in 100m Buffer of Downstream Network	0.78
Density of Crossings in Upstream Network Watershed (#/m2)	0.93
Density of Crossings in Downstream Network Watershed (#/m2)	1.36
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	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	Yes
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes
Native Fish Species Richness (HUC8)	33
# Rare Fish (HUC8)	0
# 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	No

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	Fair
Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	No

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