Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_SU004** **WILSONS MILL DAM**

Bay-wide Diadromous Tier	1
Bay-wide Resident Tier	1
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	SU004
River Name	Deer Creek
Dam Height (ft)	4
Dam Type	
Latitude	39.6146
Longitude	-76.206
Passage Facilities	Denil
Passage Year	1999
Size Class	2: Small River (38.61 - 200 sq mi
HUC 12	Lower Deer Creek
HUC 10	Deer Creek
HUC 8	Lower Susquehanna
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.3
% Natural Cover in Upstream Drainage Area	40.15
% Forested in Upstream Drainage Area	36.04
% Agriculture in Upstream Drainage Area	48.81
% Natural Cover in ARA of Upstream Network	57.74
% Natural Cover in ARA of Downstream Network	75.06
% Forest Cover in ARA of Upstream Network	49.55
% Forest Cover in ARA of Downstream Network	38.03
% Agricultral Cover in ARA of Upstream Network	35.97
% Agricultral Cover in ARA of Downstream Network	12.8
% Impervious Surf in ARA of Upstream Network	0.38
% Impervious Surf in ARA of Downstream Network	2.26

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	59.88
% Tree Cover in ARA of Downstream Network	52.56
% Herbaceaous Cover in ARA of Upstream Network	37.24
% Herbaceaous Cover in ARA of Downstream Network	16.12
% Barren Cover in ARA of Upstream Network	0.07
% Barren Cover in ARA of Downstream Network	0.85
% Road Impervious in ARA of Upstream Network	0.5
% Road Impervious in ARA of Downstream Network	1.06
% Other Impervious in ARA of Upstream Network	1.21
% Other Impervious in ARA of Downstream Network	2.45

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)	165.58	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	317.79	# Downsteam Natural Barriers	0
Absolute Gain (mi)	152.21	# Downstream Hydropower Dams	0
# Size Classes in Total Network	5	# Downstream Dams with Passage	0
# Upstream Network Size Classes	3	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	23.83
% Conserved Land in 100m Buffer of Downstream Network	16.51
Density of Crossings in Upstream Network Watershed (#/m2)	0.67
Density of Crossings in Downstream Network Watershed (#/m2)	0.97
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	Current	Downstream Striped Bass	None Documented
Downstream Blueback	Current	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	Current	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	Current	Downstream American Eel	Current
One or More DS Anadromous Species	Current	# Diadromous Sp Dnstrm (incl eel)	5

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	POOR
MD MBSS Benthic IBI Stream Health	Good
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	Insufficient Data

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

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