Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_36-297** **DUTCH WONDERLAND**

Diadromous Tier	13
Brook Trout Tier	N/A
Resident Tier	15
NID ID	
State ID	36-297
River Name	Mill Creek
Dam Height (ft)	4.2
Dam Type	Stone
Latitude	40.0288
Longitude	-76.2201
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi
HUC 12	Muddy Run-Mill Creek
HUC 10	Conestoga River
HUC 8	Lower Susquehanna
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	7.95
% Natural Cover in Upstream Drainage Area	10.96
% Forested in Upstream Drainage Area	9.06
% Agriculture in Upstream Drainage Area	67.05
% Natural Cover in ARA of Upstream Network	14.31
% Natural Cover in ARA of Downstream Network	31.02
% Forest Cover in ARA of Upstream Network	7.17
% Forest Cover in ARA of Downstream Network	29.69
% Agricultral Cover in ARA of Upstream Network	53.74
% Agricultral Cover in ARA of Downstream Network	16.65
% Impervious Surf in ARA of Upstream Network	7.45
% Impervious Surf in ARA of Downstream Network	17.32

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	15.63
% Tree Cover in ARA of Downstream Network	32.84
% Herbaceaous Cover in ARA of Upstream Network	73.31
% Herbaceaous Cover in ARA of Downstream Network	39.48
% Barren Cover in ARA of Upstream Network	0.07
% Barren Cover in ARA of Downstream Network	0.4
% Road Impervious in ARA of Upstream Network	1.68
% Road Impervious in ARA of Downstream Network	2.2
% Other Impervious in ARA of Upstream Network	7.38
% Other Impervious in ARA of Downstream Network	21.73

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_36-297** **DUTCH WONDERLAND**

Network, System Type and Condition

Functional Upstream Network (mi)	5.75	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	8.93	# Downsteam Natural Barriers	0
Absolute Gain (mi)	3.18	# Downstream Hydropower Dams	2
# Size Classes in Total Network	2	# Downstream Dams with Passage	2
# Upstream Network Size Classes	2	# of Downstream Barriers	4

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	0
Density of Crossings in Upstream Network Watershed (#/m2)	0.58
Density of Crossings in Downstream Network Watershed (#/m2)	0.64
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	Current

Presence of 1 or More Downstream Anadromous Species	Historical
# Diadromous Species Downstream (incl eel)	1

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	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	Poor

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy