

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_1194685** **Hummelstown Dam**

Bay-wide Diadromous Tier 3
 Bay-wide Resident Tier 12
 Bay-wide Brook Trout Tier N/A
 NID ID
 State ID 1194685
 River Name Swatara Creek
 Dam Height (ft) 0
 Dam Type
 Latitude 40.2699
 Longitude -76.7157
 Passage Facilities None Documented
 Passage Year N/A
 Size Class 3a: Medium Tributary River (200
 HUC 12 Swatara Creek-Susquehanna Riv
 HUC 10 Lower Swatara Creek
 HUC 8 Lower Susquehanna-Swatara
 HUC 6 Lower Susquehanna
 HUC 4 Susquehanna



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	4.72	% Tree Cover in ARA of Upstream Network	34.39
% Natural Cover in Upstream Drainage Area	42.97	% Tree Cover in ARA of Downstream Network	36.88
% Forested in Upstream Drainage Area	40.36	% Herbaceous Cover in ARA of Upstream Network	39.34
% Agriculture in Upstream Drainage Area	39.31	% Herbaceous Cover in ARA of Downstream Network	20.37
% Natural Cover in ARA of Upstream Network	25.1	% Barren Cover in ARA of Upstream Network	2
% Natural Cover in ARA of Downstream Network	50.92	% Barren Cover in ARA of Downstream Network	0.36
% Forest Cover in ARA of Upstream Network	10.85	% Road Impervious in ARA of Upstream Network	2.59
% Forest Cover in ARA of Downstream Network	21.43	% Road Impervious in ARA of Downstream Network	1.82
% Agricultural Cover in ARA of Upstream Network	16.4	% Other Impervious in ARA of Upstream Network	13.01
% Agricultural Cover in ARA of Downstream Network	11.86	% Other Impervious in ARA of Downstream Network	15.55
% Impervious Surf in ARA of Upstream Network	17.49		
% Impervious Surf in ARA of Downstream Network	15.91		

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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Hummelstown Dam

Network, System Type and Condition

Functional Upstream Network (mi)	13.8	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	267.09	# Downstream Natural Barriers	0
Absolute Gain (mi)	13.8	# Downstream Hydropower Dams	4
# Size Classes in Total Network	5	# Downstream Dams with Passage	4
# Upstream Network Size Classes	3	# of Downstream Barriers	4
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0.32		
% Conserved Land in 100m Buffer of Downstream Network	1.2		
Density of Crossings in Upstream Network Watershed (#/m2)	2.44		
Density of Crossings in Downstream Network Watershed (#/m2)	2.34		
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	Potential Current	Downstream Striped Bass	None Documented
Downstream Blueback	Potential Current	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	Current	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
One or More DS Anadromous Species	Current	# Diadromous Sp Dnstrm (incl eel)	2

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	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	38
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	2
# 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	Poor

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

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf