Chesapeake Fish Passage Prioritization - Dam Fact Sheet

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

Diadromous Tier	3
Brook Trout Tier	N/A
Resident Tier	12
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)	
% Impervious Surface in Upstream Drainage Area	4.72
% Natural Cover in Upstream Drainage Area	42.97
% Forested in Upstream Drainage Area	40.36
% Agriculture in Upstream Drainage Area	39.31
% Natural Cover in ARA of Upstream Network	25.1
% Natural Cover in ARA of Downstream Network	50.92
% Forest Cover in ARA of Upstream Network	10.85
% Forest Cover in ARA of Downstream Network	21.43
% Agricultral Cover in ARA of Upstream Network	16.4
% Agricultral Cover in ARA of Downstream Network	11.86
% Impervious Surf in ARA of Upstream Network	17.49
% Impervious Surf in ARA of Downstream Network	15.91

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	34.39
% Tree Cover in ARA of Downstream Network	36.88
% Herbaceaous Cover in ARA of Upstream Network	39.34
% Herbaceaous Cover in ARA of Downstream Network	20.37
% Barren Cover in ARA of Upstream Network	2
% Barren Cover in ARA of Downstream Network	0.36
% Road Impervious in ARA of Upstream Network	2.59
% Road Impervious in ARA of Downstream Network	1.82
% Other Impervious in ARA of Upstream Network	13.01
% Other Impervious in ARA of Downstream Network	15.55

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)	13.8	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	267.09	# Downsteam 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

Presence of 1 or More Downstream Anadromous Species	Current
# Diadromous Species Downstream (incl eel)	2

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)	38
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	2
# 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

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