Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12171** **DANIELS DAM**

Diadromous Tier	1
Brook Trout Tier	N/A
Resident Tier	6
NID ID	MD00136
State ID	12171
River Name	Patapsco River
Dam Height (ft)	27
Dam Type	Concrete Buttress
Latitude	39.3144
Longitude	-76.8163
Passage Facilities	Denil
Passage Year	1993
Size Class	3a: Medium Tributary River (200
HUC 12	Brice Run-Patapsco River
HUC 10	Patapsco River
HUC 8	Gunpowder-Patapsco
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	2.92
% Natural Cover in Upstream Drainage Area	41.23
% Forested in Upstream Drainage Area	35.72
% Agriculture in Upstream Drainage Area	40.29
% Natural Cover in ARA of Upstream Network	77.78
% Natural Cover in ARA of Downstream Network	49.55
% Forest Cover in ARA of Upstream Network	69.95
% Forest Cover in ARA of Downstream Network	37.53
% Agricultral Cover in ARA of Upstream Network	11.76
% Agricultral Cover in ARA of Downstream Network	1.16
% Impervious Surf in ARA of Upstream Network	1.36
% Impervious Surf in ARA of Downstream Network	15.08

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	73.89
% Tree Cover in ARA of Downstream Network	59.35
% Herbaceaous Cover in ARA of Upstream Network	19.39
% Herbaceaous Cover in ARA of Downstream Network	21.36
% Barren Cover in ARA of Upstream Network	1.36
% Barren Cover in ARA of Downstream Network	0.52
% Road Impervious in ARA of Upstream Network	0.71
% Road Impervious in ARA of Downstream Network	4.82
% Other Impervious in ARA of Upstream Network	2.48
% Other Impervious in ARA of Downstream Network	11.2

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)	65.04	Upstream Size Class Gain (#)	1
Total Functional Network (mi)	273.37	# Downsteam Natural Barriers	0
Absolute Gain (mi)	65.04	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	4	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	40.29
% Conserved Land in 100m Buffer of Downstream Network	25.65
Density of Crossings in Upstream Network Watershed (#/m2)	1.23
Density of Crossings in Downstream Network Watershed (#/m2)	3.58
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

Presence of 1 or More Downstream Anadromous Species	Current
# Diadromous Species Downstream (incl eel)	5

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)	52
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	POOR
MD MBSS Benthic IBI Stream Health	Poor
MD MBSS Fish IBI Stream Health	Poor
MD MBSS Combined IBI Stream Health	Poor
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	N/A

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