

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

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

Bay-wide Diadromous Tier	1
Bay-wide Resident Tier	6
Bay-wide Brook Trout Tier	N/A
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)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	2.92	% Tree Cover in ARA of Upstream Network	73.89
% Natural Cover in Upstream Drainage Area	41.23	% Tree Cover in ARA of Downstream Network	59.35
% Forested in Upstream Drainage Area	35.72	% Herbaceous Cover in ARA of Upstream Network	19.39
% Agriculture in Upstream Drainage Area	40.29	% Herbaceous Cover in ARA of Downstream Network	21.36
% Natural Cover in ARA of Upstream Network	77.78	% Barren Cover in ARA of Upstream Network	1.36
% Natural Cover in ARA of Downstream Network	49.55	% Barren Cover in ARA of Downstream Network	0.52
% Forest Cover in ARA of Upstream Network	69.95	% Road Impervious in ARA of Upstream Network	0.71
% Forest Cover in ARA of Downstream Network	37.53	% Road Impervious in ARA of Downstream Network	4.82
% Agricultural Cover in ARA of Upstream Network	11.76	% Other Impervious in ARA of Upstream Network	2.48
% Agricultural Cover in ARA of Downstream Network	1.16	% Other Impervious in ARA of Downstream Network	11.2
% Impervious Surf in ARA of Upstream Network	1.36		
% Impervious Surf in ARA of Downstream Network	15.08		

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	# Downstream 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
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	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
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	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
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