Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12235** **BORDEN SHAFT-CARLOS RESERVOIR**

Bay-wide Diadromous Tier	16
Bay-wide Resident Tier	6
Bay-wide Brook Trout Tier	3
NID ID	MD00237
State ID	12235
River Name	Staub Run
Dam Height (ft)	20
Dam Type	Earth
Latitude	39.6303
Longitude	-78.9742
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Upper Georges Creek
HUC 10	Georges Creek
HUC 8	North Branch Potomac
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0
% Natural Cover in Upstream Drainage Area	99.62
% Forested in Upstream Drainage Area	88.23
% Agriculture in Upstream Drainage Area	0.38
% Natural Cover in ARA of Upstream Network	100
% Natural Cover in ARA of Downstream Network	68.35
% Forest Cover in ARA of Upstream Network	99.73
% Forest Cover in ARA of Downstream Network	64.28
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	11.77
% Impervious Surf in ARA of Upstream Network	0
% Impervious Surf in ARA of Downstream Network	4.71

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	100
% Tree Cover in ARA of Downstream Network	71.2
% Herbaceaous Cover in ARA of Upstream Network	0
% Herbaceaous Cover in ARA of Downstream Network	20.09
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.24
% Road Impervious in ARA of Upstream Network	0
% Road Impervious in ARA of Downstream Network	1.47
% Other Impervious in ARA of Upstream Network	0
% Other Impervious in ARA of Downstream Network	4.93

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)	0.86	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	339.73	# Downsteam Natural Barriers	1
Absolute Gain (mi)	0.86	# Downstream Hydropower Dams	2
# Size Classes in Total Network	4	# Downstream Dams with Passage	1
# Upstream Network Size Classes	1	# of Downstream Barriers	7

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	65.03
% Conserved Land in 100m Buffer of Downstream Network	12.4
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	1.59
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	None Documented	Downstream Striped Bass	None Documented
Downstream Blueback	None Documented	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	None Documented
One or More DS Anadromous Species	None Docume	# Diadromous Sp Dnstrm (incl eel)	0

Resident Fish and Rare Species

Barrier is in EBTJV BKT Catchment	Yes
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes
Native Fish Species Richness (HUC8)	36
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	3
# 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	FAIR
MD MBSS Benthic IBI Stream Health	Poor
MD MBSS Fish IBI Stream Health	Very 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

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