Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_CPU09** **FORGE BRANCH DAM**

Bay-wide Diadromous Tier	1
Bay-wide Resident Tier	8
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	CPU09
River Name	Forge Branch
Dam Height (ft)	2.5
Dam Type	Unknown
Latitude	38.9568
Longitude	-75.8264
Passage Facilities	Notch
Passage Year	2002
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Forge Branch-Choptank River
HUC 10	Upper Choptank River
HUC 8	Choptank
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.63
% Natural Cover in Upstream Drainage Area	30.7
% Forested in Upstream Drainage Area	10.95
% Agriculture in Upstream Drainage Area	64.84
% Natural Cover in ARA of Upstream Network	32.88
% Natural Cover in ARA of Downstream Network	40.43
% Forest Cover in ARA of Upstream Network	11.46
% Forest Cover in ARA of Downstream Network	11.12
% Agricultral Cover in ARA of Upstream Network	62.89
% Agricultral Cover in ARA of Downstream Network	51.16
% Impervious Surf in ARA of Upstream Network	0.57
% Impervious Surf in ARA of Downstream Network	1.57

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	33.21
% Tree Cover in ARA of Downstream Network	36.41
% Herbaceaous Cover in ARA of Upstream Network	64.81
% Herbaceaous Cover in ARA of Downstream Network	55.1
% Barren Cover in ARA of Upstream Network	0.14
% Barren Cover in ARA of Downstream Network	0.2
% Road Impervious in ARA of Upstream Network	0.79
% Road Impervious in ARA of Downstream Network	0.97
% Other Impervious in ARA of Upstream Network	0.83
% Other Impervious in ARA of Downstream Network	1.88

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)	49.99	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1392.16	# Downsteam Natural Barriers	0
Absolute Gain (mi)	49.99	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	32.4
% Conserved Land in 100m Buffer of Downstream Network	19.29
Density of Crossings in Upstream Network Watershed (#/m2)	1.1
Density of Crossings in Downstream Network Watershed (#/m2)	0.68
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)	43
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	1
# 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	Yes

Stream Health

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

Rare fish or mussel sp in HUC12	Yes
Rare fish or mussel in upstream or downstream functional network	Yes

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