Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_647**   **FLYTHE DAM**

Bay-wide Diadromous Tier	3
Bay-wide Resident Tier	4
Bay-wide Brook Trout Tier	N/A
NID ID	VA17703
State ID	647
River Name	
Dam Height (ft)	26.8
Dam Type	Gravity
Latitude	38.1325
Longitude	-77.6967
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Ta River
HUC 10	Matta River-Mattaponi River
HUC 8	Mattaponi
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.16	% Tree Cover in ARA of Upstream Network	70.51
% Natural Cover in Upstream Drainage Area	85.09	% Tree Cover in ARA of Downstream Network	81.81
% Forested in Upstream Drainage Area	56.41	% Herbaceaous Cover in ARA of Upstream Network	5.03
% Agriculture in Upstream Drainage Area	8.03	% Herbaceaous Cover in ARA of Downstream Network	10.66
% Natural Cover in ARA of Upstream Network	91.91	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	86.69	% Barren Cover in ARA of Downstream Network	0.32
% Forest Cover in ARA of Upstream Network	42.55	% Road Impervious in ARA of Upstream Network	0
% Forest Cover in ARA of Downstream Network	38.6	% Road Impervious in ARA of Downstream Network	0.49
% Agricultral Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	0.1
% Agricultral Cover in ARA of Downstream Network	9.76	% Other Impervious in ARA of Downstream Network	0.52
% Impervious Surf in ARA of Upstream Network	0.08		
% Impervious Surf in ARA of Downstream Network	0.44		

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)	0.59	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1689.55	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.59	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	6.56
Density of Crossings in Upstream Network Watershed (#/m2)	2.41
Density of Crossings in Downstream Network Watershed (#/m2)	0.64
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	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
One or More DS Anadromous Species	Current	# Diadromous Sp Dnstrm (incl eel)	3

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)	54
# Rare Fish (HUC8)	2
# Rare Mussel (HUC8)	4
# 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	N/A
MD MBSS Fish IBI Stream Health	N/A
MD MBSS Combined IBI Stream Health	N/A
VA INSTAR mIBI Stream Health	Very High
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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The Nature Conservancy