Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1258**   **ALDRED DAM**

Diadromous Tier	13
Brook Trout Tier	N/A
Resident Tier	6
NID ID	VA15313
State ID	1258
River Name	Chestnut Lick
Dam Height (ft)	18
Dam Type	Gravity
Latitude	38.8815
Longitude	-77.6511
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Upper Bull Run
HUC 10	Bull Run
HUC 8	Middle Potomac-Anacostia-Occ
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.6	% Tree Cover in ARA of Upstream Network	83.29
% Natural Cover in Upstream Drainage Area	73.02	% Tree Cover in ARA of Downstream Network	61.29
% Forested in Upstream Drainage Area	60.05	% Herbaceaous Cover in ARA of Upstream Network	11.18
% Agriculture in Upstream Drainage Area	9.83	% Herbaceaous Cover in ARA of Downstream Network	22.6
% Natural Cover in ARA of Upstream Network	83.31	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	57.51	% Barren Cover in ARA of Downstream Network	0.58
% Forest Cover in ARA of Upstream Network	49.5	% Road Impervious in ARA of Upstream Network	1.05
% Forest Cover in ARA of Downstream Network	41.43	% Road Impervious in ARA of Downstream Network	4.09
% Agricultral Cover in ARA of Upstream Network	7.84	% Other Impervious in ARA of Upstream Network	1.68
% Agricultral Cover in ARA of Downstream Network	9.25	% Other Impervious in ARA of Downstream Network	7.53
% Impervious Surf in ARA of Upstream Network	0.39		
% Impervious Surf in ARA of Downstream Network	9.69		

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)	2.3	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	589.97	# Downsteam Natural Barriers	0
Absolute Gain (mi)	2.3	# Downstream Hydropower Dams	2
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	2
NFHAP Cumulative Disturbance Index		Not Scored / Unavailable at this scale	
Dam is on Conserved Land		No	
% Conserved Land in 100m Buffer of Upstream Network		0	
% Conserved Land in 100m Buffer of Downstream Network		13.07	
Density of Crossings in Upstream Network Watershed (#/m2)		0.84	
Density of Crossings in Downstream Network Watershed (#/m2)		1.62	
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	Historical	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	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
Presence of 1 or More Downstream Anadromous Species	Historical		
# Diadromous Species Downstream (incl eel)	0		

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)	62
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	5
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	POOR
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	High
PA IBI Stream Health	N/A

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