

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1273**

LITTLE LAKE ARROWHEAD DAM

Bay-wide Diadromous Tier	9
Bay-wide Resident Tier	6
Bay-wide Brook Trout Tier	N/A
NID ID	VA17907
State ID	1273
River Name	
Dam Height (ft)	22
Dam Type	Gravity
Latitude	38.4976
Longitude	-77.5476
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Upper Aquia Creek
HUC 10	Potomac Creek-Potomac River
HUC 8	Lower Potomac
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	2.67	% Tree Cover in ARA of Upstream Network	44.1
% Natural Cover in Upstream Drainage Area	45.5	% Tree Cover in ARA of Downstream Network	82.89
% Forested in Upstream Drainage Area	36.21	% Herbaceous Cover in ARA of Upstream Network	26.25
% Agriculture in Upstream Drainage Area	13.12	% Herbaceous Cover in ARA of Downstream Network	9.09
% Natural Cover in ARA of Upstream Network	58.2	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	88.33	% Barren Cover in ARA of Downstream Network	0.81
% Forest Cover in ARA of Upstream Network	40.16	% Road Impervious in ARA of Upstream Network	6.55
% Forest Cover in ARA of Downstream Network	58.62	% Road Impervious in ARA of Downstream Network	1.01
% Agricultural Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	6.39
% Agricultural Cover in ARA of Downstream Network	2.2	% Other Impervious in ARA of Downstream Network	2.14
% Impervious Surf in ARA of Upstream Network	2.56		
% Impervious Surf in ARA of Downstream Network	1.53		

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)	0.24	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	114.11	# Downstream Natural Barriers	0
Absolute Gain (mi)	0.24	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# Downstream Dams with Passage	0
# Upstream Network Size Classes	0	# of Downstream Barriers	1
NFHAP Cumulative Disturbance Index	High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0		
% Conserved Land in 100m Buffer of Downstream Network	57.56		
Density of Crossings in Upstream Network Watershed (#/m2)	0		
Density of Crossings in Downstream Network Watershed (#/m2)	0.94		
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
One or More DS Anadromous Species	Historical	# Diadromous Sp Dnstrm (incl eel)	0

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)	55
# Rare Fish (HUC8)	3
# Rare Mussel (HUC8)	2
# Rare Crayfish (HUC8)	0
Globally rare or fed listed fish/mussel sp HUC12	Yes
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	Yes

Stream Health

Chesapeake Bay Program Stream Health	GOOD
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	Yes
Rare fish or mussel in upstream or downstream functional network	Yes

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf