

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1131**

LAKE JOHN DAM

Bay-wide Diadromous Tier	11
Bay-wide Resident Tier	5
Bay-wide Brook Trout Tier	N/A
NID ID	VA18702
State ID	1131
River Name	Molly Booth Run
Dam Height (ft)	28
Dam Type	Gravity
Latitude	38.9821
Longitude	-78.2654
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Molly Booth Run-North Fork She
HUC 10	Passage Creek-North Fork Shena
HUC 8	North Fork Shenandoah
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	3.91	% Tree Cover in ARA of Upstream Network	71.75
% Natural Cover in Upstream Drainage Area	47.38	% Tree Cover in ARA of Downstream Network	59.79
% Forested in Upstream Drainage Area	46.12	% Herbaceous Cover in ARA of Upstream Network	23.93
% Agriculture in Upstream Drainage Area	35.13	% Herbaceous Cover in ARA of Downstream Network	28.7
% Natural Cover in ARA of Upstream Network	65.47	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	61.79	% Barren Cover in ARA of Downstream Network	0.68
% Forest Cover in ARA of Upstream Network	62.95	% Road Impervious in ARA of Upstream Network	2.02
% Forest Cover in ARA of Downstream Network	53.27	% Road Impervious in ARA of Downstream Network	1.87
% Agricultural Cover in ARA of Upstream Network	24.65	% Other Impervious in ARA of Upstream Network	0.5
% Agricultural Cover in ARA of Downstream Network	28.34	% Other Impervious in ARA of Downstream Network	2.27
% Impervious Surf in ARA of Upstream Network	1.62		
% Impervious Surf in ARA of Downstream Network	1.76		

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)	14.88	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	847.4	# Downstream Natural Barriers	1
Absolute Gain (mi)	14.88	# Downstream Hydropower Dams	2
# Size Classes in Total Network	5	# Downstream Dams with Passage	3
# Upstream Network Size Classes	1	# of Downstream Barriers	4
NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0.22		
% Conserved Land in 100m Buffer of Downstream Network	30.89		
Density of Crossings in Upstream Network Watershed (#/m2)	0.94		
Density of Crossings in Downstream Network Watershed (#/m2)	1.29		
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	Current
Presence of 1 or More Downstream Anadromous Species	None Documented		
# Diadromous Species Downstream (incl eel)	1		

Resident Fish

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes
Native Fish Species Richness (HUC8)	28
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	3
# Rare Crayfish (HUC8)	0

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

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