

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_560**

LAKE CAROLINE DAM

Diadromous Tier	1
Brook Trout Tier	N/A
Resident Tier	1
NID ID	VA03324
State ID	560
River Name	Stevens Mill Run
Dam Height (ft)	48
Dam Type	Gravity
Latitude	37.9865
Longitude	-77.5068
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Polecat Creek
HUC 10	Polecat Creek-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	2.4	% Tree Cover in ARA of Upstream Network	64.05
% Natural Cover in Upstream Drainage Area	74.5	% Tree Cover in ARA of Downstream Network	81.81
% Forested in Upstream Drainage Area	50.79	% Herbaceous Cover in ARA of Upstream Network	12.55
% Agriculture in Upstream Drainage Area	9.03	% Herbaceous Cover in ARA of Downstream Network	10.66
% Natural Cover in ARA of Upstream Network	87.43	% 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	43.8	% Road Impervious in ARA of Upstream Network	1.32
% Forest Cover in ARA of Downstream Network	38.6	% Road Impervious in ARA of Downstream Network	0.49
% Agricultural Cover in ARA of Upstream Network	1.17	% Other Impervious in ARA of Upstream Network	1.52
% Agricultural Cover in ARA of Downstream Network	9.76	% Other Impervious in ARA of Downstream Network	0.52
% Impervious Surf in ARA of Upstream Network	2.14		
% 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

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_560**

LAKE CAROLINE DAM

Network, System Type and Condition

Functional Upstream Network (mi)	19.99	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1708.96	# Downstream Natural Barriers	0
Absolute Gain (mi)	19.99	# 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	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	6.56		
Density of Crossings in Upstream Network Watershed (#/m2)	1.02		
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
Presence of 1 or More Downstream Anadromous Species	Current		
# Diadromous Species Downstream (incl eel)	3		

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)	54
# Rare Fish (HUC8)	2
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0

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	Outstanding
PA IBI Stream Health	N/A

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf