Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_LPX10** **SOLDIERS LAKE DAM** **LAKE ALLEN DAM**

Bay-wide Diadromous Tier	6
Bay-wide Resident Tier	12
Bay-wide Brook Trout Tier	N/A
NID ID	MD00066
State ID	LPX10
River Name	Midway Branch
Dam Height (ft)	11
Dam Type	Unspecified Type
Latitude	39.0807
Longitude	-76.7316
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Towsers Branch-Little Patuxent
HUC 10	Little Patuxent River
HUC 8	Patuxent
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	24.09
% Natural Cover in Upstream Drainage Area	22.71
% Forested in Upstream Drainage Area	19.15
% Agriculture in Upstream Drainage Area	3.18
% Natural Cover in ARA of Upstream Network	24.6
% Natural Cover in ARA of Downstream Network	71.7
% Forest Cover in ARA of Upstream Network	17.88
% Forest Cover in ARA of Downstream Network	37.4
% Agricultral Cover in ARA of Upstream Network	2.15
% Agricultral Cover in ARA of Downstream Network	12.43
% Impervious Surf in ARA of Upstream Network	21.78
% Impervious Surf in ARA of Downstream Network	4.02

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	47.12
% Tree Cover in ARA of Downstream Network	62.66
% Herbaceaous Cover in ARA of Upstream Network	32.71
% Herbaceaous Cover in ARA of Downstream Network	24.77
% Barren Cover in ARA of Upstream Network	0.08
% Barren Cover in ARA of Downstream Network	0.29
% Road Impervious in ARA of Upstream Network	5.92
% Road Impervious in ARA of Downstream Network	1.31
% Other Impervious in ARA of Upstream Network	13.55
% Other Impervious in ARA of Downstream Network	3.67

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_LPX10** **SOLDIERS LAKE DAM** **LAKE ALLEN DAM**

Network, System Type and Condition

Functional Upstream Network (mi)	9.09	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1239.86	# Downsteam Natural Barriers	0
Absolute Gain (mi)	9.09	# 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	Very High
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	89.39
% Conserved Land in 100m Buffer of Downstream Network	19.68
Density of Crossings in Upstream Network Watershed (#/m2)	2.27
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)	0.02

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)	51
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	1
# 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	ERY_POOR
MD MBSS Benthic IBI Stream Health	Poor
MD MBSS Fish IBI Stream Health	Fair
MD MBSS Combined IBI Stream Health	Poor
VA INSTAR mIBI Stream Health	N/A
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-proto2/images/Metric_Glossary.pdf

The Nature Conservancy