Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00872** **LAWRENCE BAKER SHEPPARD**

Bay-wide Diadromous Tier	19
Bay-wide Resident Tier	11
Bay-wide Brook Trout Tier	N/A
NID ID	PA00872
State ID	PA00872
River Name	Long Arm Creek
Dam Height (ft)	75
Dam Type	Earth
Latitude	39.7545
Longitude	-76.9975
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Headwaters South Branch Cone
HUC 10	South Branch Conewago Creek
HUC 8	Lower Susquehanna
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.57
% Natural Cover in Upstream Drainage Area	30.72
% Forested in Upstream Drainage Area	21.42
% Agriculture in Upstream Drainage Area	62.77
% Natural Cover in ARA of Upstream Network	54.38
% Natural Cover in ARA of Downstream Network	39.4
% Forest Cover in ARA of Upstream Network	20.14
% Forest Cover in ARA of Downstream Network	29.37
% Agricultral Cover in ARA of Upstream Network	38.26
% Agricultral Cover in ARA of Downstream Network	44.28
% Impervious Surf in ARA of Upstream Network	0.88
% Impervious Surf in ARA of Downstream Network	1.33

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	32.68
% Tree Cover in ARA of Downstream Network	48.35
% Herbaceaous Cover in ARA of Upstream Network	38.1
% Herbaceaous Cover in ARA of Downstream Network	47.36
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	1.45
% Road Impervious in ARA of Downstream Network	1.66
% Other Impervious in ARA of Upstream Network	0.97
% Other Impervious in ARA of Downstream Network	1.63

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)	10.73	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	21.75	# Downsteam Natural Barriers	0
Absolute Gain (mi)	10.73	# Downstream Hydropower Dams	3
# Size Classes in Total Network	2	# Downstream Dams with Passage	3
# Upstream Network Size Classes	2	# of Downstream Barriers	13

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	9.63
% Conserved Land in 100m Buffer of Downstream Network	0
Density of Crossings in Upstream Network Watershed (#/m2)	1.03
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 Docume
# 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	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	53
# Rare Fish (HUC8)	2
# Rare Mussel (HUC8)	3
# 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	N/A
PA IBI Stream Health	Poor

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