Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_19-082** **SUNSET LAKE**

Diadromous Tier	13
Brook Trout Tier	N/A
Resident Tier	7
NID ID	PA01739
State ID	19-082
River Name	Little Shickshinny Creek
Dam Height (ft)	12
Dam Type	Earth
Latitude	41.1221
Longitude	-76.2514
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Little Shickshinny Creek-Shickshi
HUC 10	Middle Susquehanna River
HUC 8	Upper Susquehanna-Lackawann
HUC 6	Upper Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.05
% Natural Cover in Upstream Drainage Area	98.81
% Forested in Upstream Drainage Area	95.78
% Agriculture in Upstream Drainage Area	0.28
% Natural Cover in ARA of Upstream Network	96.77
% Natural Cover in ARA of Downstream Network	92.02
% Forest Cover in ARA of Upstream Network	81.26
% Forest Cover in ARA of Downstream Network	52.63
% Agricultral Cover in ARA of Upstream Network	0.73
% Agricultral Cover in ARA of Downstream Network	6.46
% Impervious Surf in ARA of Upstream Network	0.16
% Impervious Surf in ARA of Downstream Network	0.08

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	89.49
% Tree Cover in ARA of Downstream Network	83.69
% Herbaceaous Cover in ARA of Upstream Network	5.85
% Herbaceaous Cover in ARA of Downstream Network	15.07
% Barren Cover in ARA of Upstream Network	0.03
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	0.42
% Road Impervious in ARA of Downstream Network	0.35
% Other Impervious in ARA of Upstream Network	0.23
% Other Impervious in ARA of Downstream Network	0.33

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: **PA_19-082** **SUNSET LAKE**

Network, System Type and Condition

Functional Upstream Network (mi)	2.71	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	8.56	# Downsteam Natural Barriers	0
Absolute Gain (mi)	2.71	# Downstream Hydropower Dams	4
# Size Classes in Total Network	2	# Downstream Dams with Passage	5
# Upstream Network Size Classes	1	# of Downstream Barriers	7

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	30.82
% Conserved Land in 100m Buffer of Downstream Network	0.39
Density of Crossings in Upstream Network Watershed (#/m2)	0.26
Density of Crossings in Downstream Network Watershed (#/m2)	0.29
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)	Yes
Native Fish Species Richness (HUC8)	37
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	2
# 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	N/A
PA IBI Stream Health	Fair

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

The Nature Conservancy