Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_01-071** **SHEPPARD**

Bay-wide Diadromous Tier	15
Bay-wide Resident Tier	14
Bay-wide Brook Trout Tier	N/A
NID ID	PA00333
State ID	01-071
River Name	
Dam Height (ft)	23
Dam Type	Earth
Latitude	39.7638
Longitude	-77.0166
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 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	0.31
% Natural Cover in Upstream Drainage Area	36.22
% Forested in Upstream Drainage Area	32.36
% Agriculture in Upstream Drainage Area	59.58
% Natural Cover in ARA of Upstream Network	48.97
% Natural Cover in ARA of Downstream Network	21.21
% Forest Cover in ARA of Upstream Network	37.39
% Forest Cover in ARA of Downstream Network	10.56
% Agricultral Cover in ARA of Upstream Network	46.51
% Agricultral Cover in ARA of Downstream Network	72.76
% Impervious Surf in ARA of Upstream Network	0.1
% Impervious Surf in ARA of Downstream Network	0.81

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	55.43
% Tree Cover in ARA of Downstream Network	25.19
% Herbaceaous Cover in ARA of Upstream Network	40.88
% Herbaceaous Cover in ARA of Downstream Network	70.69
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.31
% Road Impervious in ARA of Upstream Network	0.25
% Road Impervious in ARA of Downstream Network	1.03
% Other Impervious in ARA of Upstream Network	0.93
% Other Impervious in ARA of Downstream Network	1.85

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_01-071** **SHEPPARD**

Network, System Type and Condition

Functional Upstream Network (mi)	3.58	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	27.63	# Downsteam Natural Barriers	0
Absolute Gain (mi)	3.58	# Downstream Hydropower Dams	3
# Size Classes in Total Network	2	# Downstream Dams with Passage	3
# Upstream Network Size Classes	1	# of Downstream Barriers	12

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	0
Density of Crossings in Upstream Network Watershed (#/m2)	0.86
Density of Crossings in Downstream Network Watershed (#/m2)	1.2
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	Historical	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	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	Historical
# 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

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

The Nature Conservancy