Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1148** **SHENANDOAH DAM**

Bay-wide Diadromous Tier	10
Bay-wide Resident Tier	4
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	1148
River Name	South Fork Shenandoah River
Dam Height (ft)	0
Dam Type	Gravity
Latitude	38.4813
Longitude	-78.6274
Passage Facilities	None Documented
Passage Year	N/A
Size Class	3b: Medium Mainstem River (1,
HUC 12	Fultz Run-South Fork Shenandoa
HUC 10	Hawksbill Creek-South Fork She
HUC 8	South Fork Shenandoah
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	2.84
% Natural Cover in Upstream Drainage Area	53.08
% Forested in Upstream Drainage Area	52.45
% Agriculture in Upstream Drainage Area	35.35
% Natural Cover in ARA of Upstream Network	40.71
% Natural Cover in ARA of Downstream Network	71.55
% Forest Cover in ARA of Upstream Network	38.31
% Forest Cover in ARA of Downstream Network	60.99
% Agricultral Cover in ARA of Upstream Network	42.34
% Agricultral Cover in ARA of Downstream Network	20.7
% Impervious Surf in ARA of Upstream Network	4.76
% Impervious Surf in ARA of Downstream Network	0.78

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	46.52
% Tree Cover in ARA of Downstream Network	69.12
% Herbaceaous Cover in ARA of Upstream Network	44.63
% Herbaceaous Cover in ARA of Downstream Network	19.92
% Barren Cover in ARA of Upstream Network	0.19
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	2.26
% Road Impervious in ARA of Downstream Network	1.43
% Other Impervious in ARA of Upstream Network	4.74
% Other Impervious in ARA of Downstream Network	1.66

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: **VA_1148** **SHENANDOAH DAM**

Network, System Type and Condition

Functional Upstream Network (mi)	1389.23	Upstream Size Class Gain (#)	2
Total Functional Network (mi)	1516.8	# Downsteam Natural Barriers	2
Absolute Gain (mi)	127.57	# Downstream Hydropower Dams	4
# Size Classes in Total Network	5	# Downstream Dams with Passage	3
# Upstream Network Size Classes	5	# of Downstream Barriers	7

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	20.2
% Conserved Land in 100m Buffer of Downstream Network	40.35
Density of Crossings in Upstream Network Watershed (#/m2)	1.71
Density of Crossings in Downstream Network Watershed (#/m2)	1.41
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	None Documented
One or More DS Anadromous Species	None Docume	# Diadromous Sp Dnstrm (incl eel)	0

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)	35
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	0
# 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	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	High
PA IBI Stream Health	N/A

Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	No

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

The Nature Conservancy