Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1127** **CHAPMAN**

Bay-wide Diadromous Tier	12
Bay-wide Resident Tier	10
Bay-wide Brook Trout Tier	N/A
NID ID	VA17106
State ID	1127
River Name	North Fork Shenandoah River
Dam Height (ft)	17
Dam Type	Gravity
Latitude	38.8493
Longitude	-78.4991
Passage Facilities	None Documented
Passage Year	N/A
Size Class	3a: Medium Tributary River (200
HUC 12	Narrow Passage Creek-North Fo
HUC 10	Narrow Passage Creek-North Fo
HUC 8	North Fork Shenandoah
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.07
% Natural Cover in Upstream Drainage Area	60.43
% Forested in Upstream Drainage Area	59.97
% Agriculture in Upstream Drainage Area	33.38
% Natural Cover in ARA of Upstream Network	49.9
% Natural Cover in ARA of Downstream Network	47.21
% Forest Cover in ARA of Upstream Network	43.39
% Forest Cover in ARA of Downstream Network	30.95
% Agricultral Cover in ARA of Upstream Network	42.09
% Agricultral Cover in ARA of Downstream Network	48.07
% Impervious Surf in ARA of Upstream Network	0.95
% Impervious Surf in ARA of Downstream Network	0.38

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	51.23
% Tree Cover in ARA of Downstream Network	41.58
% Herbaceaous Cover in ARA of Upstream Network	40.12
% Herbaceaous Cover in ARA of Downstream Network	44.78
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	1.96
% Road Impervious in ARA of Downstream Network	1.4
% Other Impervious in ARA of Upstream Network	2.27
% Other Impervious in ARA of Downstream Network	1.11

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)	76.5	Upstream Size Class Gain (#)	1
Total Functional Network (mi)	93.01	# Downsteam Natural Barriers	1
Absolute Gain (mi)	16.51	# Downstream Hydropower Dams	3
# Size Classes in Total Network	3	# Downstream Dams with Passage	3
# Upstream Network Size Classes	3	# of Downstream Barriers	7

NFHAP Cumulative Disturbance Index	Moderate
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	20.15
% Conserved Land in 100m Buffer of Downstream Network	28.78
Density of Crossings in Upstream Network Watershed (#/m2)	1.27
Density of Crossings in Downstream Network Watershed (#/m2)	0.44
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

Presence of 1 or More Downstream Anadromous Species	None Docume
# Diadromous Species Downstream (incl eel)	0

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)	28
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	3
# 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	Very High
PA IBI Stream Health	N/A

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