Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1488066** **Union Springs Dam** **Lower North River #80**

Bay-wide Diadromous Tier	13
Bay-wide Resident Tier	7
Bay-wide Brook Trout Tier	1
NID ID	VA16501
State ID	1488066
River Name	Union Springs Run
Dam Height (ft)	81.7
Dam Type	
Latitude	38.471
Longitude	-79.0605
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Briery Branch
HUC 10	Upper North River
HUC 8	South Fork Shenandoah
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.3
% Natural Cover in Upstream Drainage Area	96.6
% Forested in Upstream Drainage Area	96.46
% Agriculture in Upstream Drainage Area	1.16
% Natural Cover in ARA of Upstream Network	87.44
% Natural Cover in ARA of Downstream Network	51.91
% Forest Cover in ARA of Upstream Network	86.17
% Forest Cover in ARA of Downstream Network	51.16
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	37.34
% Impervious Surf in ARA of Upstream Network	1.1
% Impervious Surf in ARA of Downstream Network	1.98

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	95.76
% Tree Cover in ARA of Downstream Network	56.66
% Herbaceaous Cover in ARA of Upstream Network	0.72
% Herbaceaous Cover in ARA of Downstream Network	37.91
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.02
% Road Impervious in ARA of Upstream Network	1.43
% Road Impervious in ARA of Downstream Network	1.47
% Other Impervious in ARA of Upstream Network	0.15
% Other Impervious in ARA of Downstream Network	2.35

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)	12.82	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	508.23	# Downsteam Natural Barriers	2
Absolute Gain (mi)	12.82	# Downstream Hydropower Dams	4
# Size Classes in Total Network	4	# Downstream Dams with Passage	3
# Upstream Network Size Classes	1	# of Downstream Barriers	9

NFHAP Cumulative Disturbance Index	Moderate
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	64.73
% Conserved Land in 100m Buffer of Downstream Network	33.37
Density of Crossings in Upstream Network Watershed (#/m2)	0.45
Density of Crossings in Downstream Network Watershed (#/m2)	1.55
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	Yes
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)	35
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	GOOD
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	Moderate
PA IBI Stream Health	N/A

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