Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_789** **WESTERN BRANCH DAM**

Diadromous Tier	2
Brook Trout Tier	N/A
Resident Tier	6
NID ID	VA80011
State ID	789
River Name	
Dam Height (ft)	30
Dam Type	Earth
Latitude	36.8008
Longitude	-76.5821
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi
HUC 12	Western Branch Reservoir
HUC 10	Nansemond River
HUC 8	Hampton Roads
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.16
% Natural Cover in Upstream Drainage Area	61.95
% Forested in Upstream Drainage Area	32.24
% Agriculture in Upstream Drainage Area	29.62
% Natural Cover in ARA of Upstream Network	83.69
% Natural Cover in ARA of Downstream Network	72.59
% Forest Cover in ARA of Upstream Network	28.29
% Forest Cover in ARA of Downstream Network	5.49
% Agricultral Cover in ARA of Upstream Network	11.11
% Agricultral Cover in ARA of Downstream Network	8.52
% Impervious Surf in ARA of Upstream Network	0.57
% Impervious Surf in ARA of Downstream Network	4.68

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	44.07
% Tree Cover in ARA of Downstream Network	66.19
% Herbaceaous Cover in ARA of Upstream Network	12.23
% Herbaceaous Cover in ARA of Downstream Network	17.39
% Barren Cover in ARA of Upstream Network	0.1
% Barren Cover in ARA of Downstream Network	0.95
% Road Impervious in ARA of Upstream Network	0.45
% Road Impervious in ARA of Downstream Network	2.42
% Other Impervious in ARA of Upstream Network	1.12
% Other Impervious in ARA of Downstream Network	4.65

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)	22.51	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	226.2	# Downsteam Natural Barriers	0
Absolute Gain (mi)	22.51	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	3	# of Downstream Barriers	0

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0.01
% Conserved Land in 100m Buffer of Downstream Network	0
Density of Crossings in Upstream Network Watershed (#/m2)	0.37
Density of Crossings in Downstream Network Watershed (#/m2)	0.5
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	Current	Downstream Striped Bass	None Documented
Downstream Blueback	Current	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	Current	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	Current	Downstream American Eel	Current

Presence of 1 or More Downstream Anadromous Species	Current
# Diadromous Species Downstream (incl eel)	5

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)	46
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	VERY_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	High
PA IBI Stream Health	N/A

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