Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_393** **BUTLERS DAM**

Bay-wide Diadromous Tier	20
Bay-wide Resident Tier	17
Bay-wide Brook Trout Tier	N/A
NID ID	VA09303
State ID	393
River Name	
Dam Height (ft)	21
Dam Type	Earth
Latitude	36.8724
Longitude	-76.6539
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 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	0.23
% Natural Cover in Upstream Drainage Area	32.83
% Forested in Upstream Drainage Area	10.54
% Agriculture in Upstream Drainage Area	61.14
% Natural Cover in ARA of Upstream Network	23.08
% Natural Cover in ARA of Downstream Network	73.69
% Forest Cover in ARA of Upstream Network	6.54
% Forest Cover in ARA of Downstream Network	31.66
% Agricultral Cover in ARA of Upstream Network	73.85
% Agricultral Cover in ARA of Downstream Network	21.29
% Impervious Surf in ARA of Upstream Network	0.13
% Impervious Surf in ARA of Downstream Network	0.5

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	21.44
% Tree Cover in ARA of Downstream Network	69.58
% Herbaceaous Cover in ARA of Upstream Network	68.8
% Herbaceaous Cover in ARA of Downstream Network	22.66
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	0
% Road Impervious in ARA of Downstream Network	0.64
% Other Impervious in ARA of Upstream Network	0.11
% Other Impervious in ARA of Downstream Network	0.74

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_393** **BUTLERS DAM**

Network, System Type and Condition

Functional Upstream Network (mi)	0.6	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	45.8	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.6	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	2

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	100
% Conserved Land in 100m Buffer of Downstream Network	11.1
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	0.52
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)	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

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

The Nature Conservancy