Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1086** **BUTLER DAM** **Lake Serene Dam**

Diadromous Tier	18
Brook Trout Tier	N/A
Resident Tier	11
NID ID	VA06901
State ID	1086
River Name	Babbs Run
Dam Height (ft)	24
Dam Type	Gravity
Latitude	39.267
Longitude	-78.1997
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Babbs Run
HUC 10	Back Creek
HUC 8	Conococheague-Opequon
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	2.02
% Natural Cover in Upstream Drainage Area	33.58
% Forested in Upstream Drainage Area	32.3
% Agriculture in Upstream Drainage Area	57.05
% Natural Cover in ARA of Upstream Network	18.33
% Natural Cover in ARA of Downstream Network	90.93
% Forest Cover in ARA of Upstream Network	14.48
% Forest Cover in ARA of Downstream Network	58.15
% Agricultral Cover in ARA of Upstream Network	78.67
% Agricultral Cover in ARA of Downstream Network	0.56
% Impervious Surf in ARA of Upstream Network	0.31
% Impervious Surf in ARA of Downstream Network	0.23

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	21.13
% Tree Cover in ARA of Downstream Network	71.81
% Herbaceaous Cover in ARA of Upstream Network	73.97
% Herbaceaous Cover in ARA of Downstream Network	1.18
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	0.63
% Road Impervious in ARA of Downstream Network	1.28
% Other Impervious in ARA of Upstream Network	1.11
% Other Impervious in ARA of Downstream Network	1.78

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)	8.66	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	13.12	# Downsteam Natural Barriers	1
Absolute Gain (mi)	4.46	# Downstream Hydropower Dams	2
# Size Classes in Total Network	2	# Downstream Dams with Passage	1
# Upstream Network Size Classes	2	# of Downstream Barriers	7

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	0
Density of Crossings in Upstream Network Watershed (#/m2)	1.06
Density of Crossings in Downstream Network Watershed (#/m2)	1.8
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)	42
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	5
# 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	High
PA IBI Stream Health	N/A

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