Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_678** **LONESOME GULCH DAM**

Diadromous Tier	8
Brook Trout Tier	N/A
Resident Tier	5
NID ID	VA03302
State ID	678
River Name	Cattlet Creek
Dam Height (ft)	10
Dam Type	
Latitude	38.1013
Longitude	-77.3478
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Campbell Creek-Mattaponi Rive
HUC 10	Matta River-Mattaponi River
HUC 8	Mattaponi
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.32
% Natural Cover in Upstream Drainage Area	90.91
% Forested in Upstream Drainage Area	70.5
% Agriculture in Upstream Drainage Area	2.7
% Natural Cover in ARA of Upstream Network	95.71
% Natural Cover in ARA of Downstream Network	93.6
% Forest Cover in ARA of Upstream Network	37.14
% Forest Cover in ARA of Downstream Network	62.84
% Agricultral Cover in ARA of Upstream Network	0
% Agricultral Cover in ARA of Downstream Network	1.49
% Impervious Surf in ARA of Upstream Network	0.06
% Impervious Surf in ARA of Downstream Network	0.55

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	76.92
% Tree Cover in ARA of Downstream Network	88.82
% Herbaceaous Cover in ARA of Upstream Network	0.95
% Herbaceaous Cover in ARA of Downstream Network	3.63
% 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	0.68
% Other Impervious in ARA of Upstream Network	0.32
% 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

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Network, System Type and Condition

Functional Upstream Network (mi)	0.27	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	21.04	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.27	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# Downstream Dams with Passage	0
# Upstream Network Size Classes	0	# of Downstream Barriers	1

NFHAP Cumulative Disturbance Index	Low
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	100
% Conserved Land in 100m Buffer of Downstream Network	95
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	0.85
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	Historical	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current

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

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)	54
# Rare Fish (HUC8)	2
# Rare Mussel (HUC8)	4
# 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	Outstanding
PA IBI Stream Health	N/A

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