Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_936** **GATHRIGHT DAM**

Diadromous Tier	7
Brook Trout Tier	N/A
Resident Tier	1
NID ID	VA00501
State ID	936
River Name	Jackson River
Dam Height (ft)	257
Dam Type	Rockfill / Earth
Latitude	37.9512
Longitude	-79.9567
Passage Facilities	None Documented
Passage Year	N/A
Size Class	3a: Medium Tributary River (200
HUC 12	Falling Spring Creek-Jackson Riv
HUC 10	Lower Jackson River
HUC 8	Upper James
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.17
% Natural Cover in Upstream Drainage Area	87.31
% Forested in Upstream Drainage Area	85.42
% Agriculture in Upstream Drainage Area	9.06
% Natural Cover in ARA of Upstream Network	71.3
% Natural Cover in ARA of Downstream Network	81.99
% Forest Cover in ARA of Upstream Network	57.81
% Forest Cover in ARA of Downstream Network	79.43
% Agricultral Cover in ARA of Upstream Network	19.96
% Agricultral Cover in ARA of Downstream Network	8.81
% Impervious Surf in ARA of Upstream Network	0.55
% Impervious Surf in ARA of Downstream Network	1.84

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	63.09
% Tree Cover in ARA of Downstream Network	81.79
% Herbaceaous Cover in ARA of Upstream Network	22.69
% Herbaceaous Cover in ARA of Downstream Network	13.84
% Barren Cover in ARA of Upstream Network	0.02
% Barren Cover in ARA of Downstream Network	0.4
% Road Impervious in ARA of Upstream Network	1.06
% Road Impervious in ARA of Downstream Network	0.99
% Other Impervious in ARA of Upstream Network	0.45
% Other Impervious in ARA of Downstream Network	1.36

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)	730.73	Upstream Size Class Gain (#)	1
Total Functional Network (mi)	960.83	# Downsteam Natural Barriers	0
Absolute Gain (mi)	230.1	# Downstream Hydropower Dams	8
# Size Classes in Total Network	4	# Downstream Dams with Passage	4
# Upstream Network Size Classes	4	# of Downstream Barriers	12

NFHAP Cumulative Disturbance Index	Moderate
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	50.7
% Conserved Land in 100m Buffer of Downstream Network	37.34
Density of Crossings in Upstream Network Watershed (#/m2)	0.97
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	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	None Documented

Presence of 1 or More Downstream Anadromous Species	Historical
# 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)	47
# Rare Fish (HUC8)	2
# Rare Mussel (HUC8)	6
# 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	Very High
PA IBI Stream Health	N/A

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