Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_903** **HUCKLES DAM**

Diadromous Tier	10
Brook Trout Tier	N/A
Resident Tier	11
NID ID	VA00334
State ID	903
River Name	Jacobs Run
Dam Height (ft)	30
Dam Type	Earth
Latitude	38.1681
Longitude	-78.4716
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Jacobs Run-North Fork Rivanna
HUC 10	North Fork Rivanna River
HUC 8	Rivanna
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.11
% Natural Cover in Upstream Drainage Area	56.4
% Forested in Upstream Drainage Area	54.59
% Agriculture in Upstream Drainage Area	35.4
% Natural Cover in ARA of Upstream Network	47.96
% Natural Cover in ARA of Downstream Network	89.12
% Forest Cover in ARA of Upstream Network	43.34
% Forest Cover in ARA of Downstream Network	75.2
% Agricultral Cover in ARA of Upstream Network	49.18
% Agricultral Cover in ARA of Downstream Network	9.15
% Impervious Surf in ARA of Upstream Network	0.17
% Impervious Surf in ARA of Downstream Network	0.15

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	49.8
% Tree Cover in ARA of Downstream Network	77.33
% Herbaceaous Cover in ARA of Upstream Network	47.5
% Herbaceaous Cover in ARA of Downstream Network	9.94
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.78
% Road Impervious in ARA of Upstream Network	0
% Road Impervious in ARA of Downstream Network	0.46
% Other Impervious in ARA of Upstream Network	0.4
% Other Impervious in ARA of Downstream Network	1.01

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)	3.67	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	16.49	# Downsteam Natural Barriers	0
Absolute Gain (mi)	3.67	# Downstream Hydropower Dams	2
# Size Classes in Total Network	2	# Downstream Dams with Passage	4
# Upstream Network Size Classes	1	# of Downstream Barriers	6

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	46.68
% Conserved Land in 100m Buffer of Downstream Network	25.54
Density of Crossings in Upstream Network Watershed (#/m2)	0.55
Density of Crossings in Downstream Network Watershed (#/m2)	0.83
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)	36
# Rare Fish (HUC8)	0
# 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	High
PA IBI Stream Health	N/A

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