

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1489698** **Johnson Dam**

Bay-wide Diadromous Tier 1
 Bay-wide Resident Tier 4
 Bay-wide Brook Trout Tier N/A
 NID ID
 State ID 1489698
 River Name Thumb Run
 Dam Height (ft) 0
 Dam Type
 Latitude 38.7168
 Longitude -77.9944
 Passage Facilities None Documented
 Passage Year N/A
 Size Class 1b: Creek (3.861 - 38.61 sq mi)
 HUC 12 Thumb Run
 HUC 10 Thumb Run-Rappahannock River
 HUC 8 Rapidan-Upper Rappahannock
 HUC 6 Lower Chesapeake
 HUC 4 Lower Chesapeake



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.17	% Tree Cover in ARA of Upstream Network	60.89
% Natural Cover in Upstream Drainage Area	50	% Tree Cover in ARA of Downstream Network	62.07
% Forested in Upstream Drainage Area	49.49	% Herbaceous Cover in ARA of Upstream Network	37.37
% Agriculture in Upstream Drainage Area	45.23	% Herbaceous Cover in ARA of Downstream Network	28.22
% Natural Cover in ARA of Upstream Network	43.57	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	61.15	% Barren Cover in ARA of Downstream Network	0.27
% Forest Cover in ARA of Upstream Network	42.77	% Road Impervious in ARA of Upstream Network	0.51
% Forest Cover in ARA of Downstream Network	38.92	% Road Impervious in ARA of Downstream Network	0.91
% Agricultural Cover in ARA of Upstream Network	52.5	% Other Impervious in ARA of Upstream Network	0.42
% Agricultural Cover in ARA of Downstream Network	32.21	% Other Impervious in ARA of Downstream Network	1.01
% Impervious Surf in ARA of Upstream Network	0.14		
% Impervious Surf in ARA of Downstream Network	1.05		

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)	71.31	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	3400.33	# Downstream Natural Barriers	0
Absolute Gain (mi)	71.31	# Downstream Hydropower Dams	0
# Size Classes in Total Network	5	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	0
NFHAP Cumulative Disturbance Index	High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	40.95		
% Conserved Land in 100m Buffer of Downstream Network	20.81		
Density of Crossings in Upstream Network Watershed (#/m2)	1.11		
Density of Crossings in Downstream Network Watershed (#/m2)	0.91		
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	Current	Downstream Striped Bass	None Documented
Downstream Blueback	Current	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
One or More DS Anadromous Species	Current	# Diadromous Sp Dnstrm (incl eel)	3

Resident Fish and Rare Species

Barrier is in EBTJV BKT Catchment	No
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	38
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0
Globally rare or fed listed fish/mussel sp HUC12	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	No

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
Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	Yes

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