

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1251**

LAKE JACKSON DAM

Bay-wide Diadromous Tier	8
Bay-wide Resident Tier	1
Bay-wide Brook Trout Tier	N/A
NID ID	VA15306
State ID	1251
River Name	Occoquan River
Dam Height (ft)	28
Dam Type	Gravity
Latitude	38.7049
Longitude	-77.4483
Passage Facilities	None Documented
Passage Year	N/A
Size Class	3a: Medium Tributary River (200
HUC 12	Lake Jackson-Occoquan River
HUC 10	Occoquan River-Potomac River
HUC 8	Middle Potomac-Anacostia-Occ
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	3.75	% Tree Cover in ARA of Upstream Network	58.05
% Natural Cover in Upstream Drainage Area	48.41	% Tree Cover in ARA of Downstream Network	61.29
% Forested in Upstream Drainage Area	37.71	% Herbaceous Cover in ARA of Upstream Network	36.33
% Agriculture in Upstream Drainage Area	33.89	% Herbaceous Cover in ARA of Downstream Network	22.6
% Natural Cover in ARA of Upstream Network	51.34	% Barren Cover in ARA of Upstream Network	0.27
% Natural Cover in ARA of Downstream Network	57.51	% Barren Cover in ARA of Downstream Network	0.58
% Forest Cover in ARA of Upstream Network	29.25	% Road Impervious in ARA of Upstream Network	1.42
% Forest Cover in ARA of Downstream Network	41.43	% Road Impervious in ARA of Downstream Network	4.09
% Agricultural Cover in ARA of Upstream Network	35.24	% Other Impervious in ARA of Upstream Network	2.58
% Agricultural Cover in ARA of Downstream Network	9.25	% Other Impervious in ARA of Downstream Network	7.53
% Impervious Surf in ARA of Upstream Network	2.9		
% Impervious Surf in ARA of Downstream Network	9.69		

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)	644.22	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	1231.9	# Downstream Natural Barriers	0
Absolute Gain (mi)	587.68	# Downstream Hydropower Dams	2
# Size Classes in Total Network	4	# Downstream Dams with Passage	0
# Upstream Network Size Classes	4	# of Downstream Barriers	2
NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	18.86		
% Conserved Land in 100m Buffer of Downstream Network	13.07		
Density of Crossings in Upstream Network Watershed (#/m2)	1.35		
Density of Crossings in Downstream Network Watershed (#/m2)	1.62		
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	Historical	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	None Documented
One or More DS Anadromous Species	Historical	# Diadromous Sp Dnstrm (incl eel)	0

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	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	62
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	5
# 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	Fair
MD MBSS Fish IBI Stream Health	Fair
MD MBSS Combined IBI Stream Health	Fair
VA INSTAR mIBI Stream Health	Moderate
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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