

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12155** **LAKE ROLAND DAM**

Bay-wide Diadromous Tier	14
Bay-wide Resident Tier	15
Bay-wide Brook Trout Tier	N/A
NID ID	MD00104
State ID	PA025
River Name	Jones Falls
Dam Height (ft)	42
Dam Type	Gravity
Latitude	39.3786
Longitude	-76.6436
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Jones Falls
HUC 10	Patapsco River-Chesapeake Bay
HUC 8	Gunpowder-Patapsco
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	9.93	% Tree Cover in ARA of Upstream Network	60.56
% Natural Cover in Upstream Drainage Area	43.24	% Tree Cover in ARA of Downstream Network	51.78
% Forested in Upstream Drainage Area	40.47	% Herbaceous Cover in ARA of Upstream Network	26.23
% Agriculture in Upstream Drainage Area	8.79	% Herbaceous Cover in ARA of Downstream Network	11.5
% Natural Cover in ARA of Upstream Network	55.57	% Barren Cover in ARA of Upstream Network	0.22
% Natural Cover in ARA of Downstream Network	19.32	% Barren Cover in ARA of Downstream Network	0.21
% Forest Cover in ARA of Upstream Network	49.41	% Road Impervious in ARA of Upstream Network	3.45
% Forest Cover in ARA of Downstream Network	17.92	% Road Impervious in ARA of Downstream Network	10.52
% Agricultural Cover in ARA of Upstream Network	11.17	% Other Impervious in ARA of Upstream Network	7.84
% Agricultural Cover in ARA of Downstream Network	0	% Other Impervious in ARA of Downstream Network	24.63
% Impervious Surf in ARA of Upstream Network	7.56		
% Impervious Surf in ARA of Downstream Network	28.81		

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)	61.93	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	79.61	# Downstream Natural Barriers	0
Absolute Gain (mi)	17.69	# Downstream Hydropower Dams	0
# Size Classes in Total Network	3	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	3
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	Yes		
% Conserved Land in 100m Buffer of Upstream Network	24.12		
% Conserved Land in 100m Buffer of Downstream Network	20.68		
Density of Crossings in Upstream Network Watershed (#/m2)	2.48		
Density of Crossings in Downstream Network Watershed (#/m2)	3.19		
Density of off-channel dams in Upstream Network Watershed (#/m2)	0.01		
Density of off-channel dams in Downstream Network Watershed (#/m2)	0.03		

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
One or More DS Anadromous Species	Historical	# Diadromous Sp Dnstrm (incl eel)	1

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)	52
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	0
# 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	ERY_POOR
MD MBSS Benthic IBI Stream Health	Fair
MD MBSS Fish IBI Stream Health	Poor
MD MBSS Combined IBI Stream Health	Poor
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	N/A

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

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