

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00192** **BROWNELL RESERVOIR**

Diadromous Tier	7
Brook Trout Tier	2
Resident Tier	3
NID ID	PA00192
State ID	PA00192
River Name	Racket Brook
Dam Height (ft)	64
Dam Type	Masonry / Gravity / Earth
Latitude	41.5747
Longitude	-75.4734
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Lees Creek-Lackawanna River
HUC 10	Lackawanna River
HUC 8	Upper Susquehanna-Lackawann
HUC 6	Upper Susquehanna
HUC 4	Susquehanna



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	2.38	% Tree Cover in ARA of Upstream Network	47.51
% Natural Cover in Upstream Drainage Area	89.24	% Tree Cover in ARA of Downstream Network	54.16
% Forested in Upstream Drainage Area	81.96	% Herbaceous Cover in ARA of Upstream Network	0.97
% Agriculture in Upstream Drainage Area	0.25	% Herbaceous Cover in ARA of Downstream Network	33.75
% Natural Cover in ARA of Upstream Network	99.17	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	57.7	% Barren Cover in ARA of Downstream Network	0.51
% Forest Cover in ARA of Upstream Network	43.54	% Road Impervious in ARA of Upstream Network	0.22
% Forest Cover in ARA of Downstream Network	44.4	% Road Impervious in ARA of Downstream Network	2
% Agricultural Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	0.32
% Agricultural Cover in ARA of Downstream Network	27.91	% Other Impervious in ARA of Downstream Network	3.88
% Impervious Surf in ARA of Upstream Network	0.03		
% Impervious Surf in ARA of Downstream Network	3.93		

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)	3.13	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	7075.68	# Downstream Natural Barriers	0
Absolute Gain (mi)	3.13	# Downstream Hydropower Dams	4
# Size Classes in Total Network	7	# Downstream Dams with Passage	5
# Upstream Network Size Classes	1	# of Downstream Barriers	6
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	37		
% Conserved Land in 100m Buffer of Downstream Network	6.98		
Density of Crossings in Upstream Network Watershed (#/m2)	0.2		
Density of Crossings in Downstream Network Watershed (#/m2)	0.98		
Density of off-channel dams in Upstream Network Watershed (#/m2)	0		
Density of off-channel dams in Downstream Network Watershed (#/m2)	0.01		

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
Presence of 1 or More Downstream Anadromous Species	Historical		
# Diadromous Species Downstream (incl eel)	1		

Resident Fish

Barrier is in EBTJV BKT Catchment	Yes
Barrier is in Modeled BKT Catchment (DeWeber)	No
Barrier Blocks an EBTJV Catchment	No
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes
Native Fish Species Richness (HUC8)	37
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	2
# 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	N/A
PA IBI Stream Health	Fair

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