Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: PA_PA00192 BROWNELL RESERVOIR

Bay-wide Diadromous Tier 7
Bay-wide Resident Tier 3
Bay-wide Brook Trout 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







	Land	cover	
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	% Herbaceaous Cover in ARA of Upstream Network	0.97
% Agriculture in Upstream Drainage Area	0.25	% Herbaceaous 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
% Agricultral Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	0.32
% Agricultral 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		



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	Network, Sy	ystem	Type and Cor	ndition		
Functional Upstream Network	(mi) 3.13		Upsti	ream Size Class Gain (‡	!)	0
Total Functional Network (mi)	7075.68		# Downsteam Natural Barriers		ers	0
Absolute Gain (mi)	3.13		# Downstream Hydropower Dams		r Dams	4
# Size Classes in Total Networl	7		# Downstream Dams with Passag		Passage	5
# Upstream Network Size Clas	ses 1		# of Downstream Barriers			6
NFHAP Cumulative Disturbanc	e Index			Very High		
Dam is on Conserved Land				No		
% Conserved Land in 100m Buffer of Upstream Network				37		
% Conserved Land in 100m Bu	ffer of Downstream Ne	twork		6.98		
Density of Crossings in Upstream Network Watershed (#/m			2)	0.2		
Density of Crossings in Downs		•		0.98		
Density of off-channel dams in	•			0		
Density of off-channel dams ir	Downstream Network	Wate	rshed (#/m2)	0.01		
Daymatraara Alawifa		Diadro	mous Fish	Chrispad Daga	Nana Daa	
Downstream Alewife	Historical		Downstream Striped Bass		None Documented	
Downstream Blueback	Historical			Atlantic Sturgeon	None Doc	umented
Downstream American Shad	None Documented		Downstream	Shortnose Sturgeon	None Doc	umented
Downstream Hickory Shad	None Documented		Downstream	n American Eel	Current	
Presence of 1 or More Downs	tream Anadromous Spe	ecies	Historical			
# Diadromous Species Downs	tream (incl eel)		1			
Resident Fish		V		Stream Health		
		Yes		Chesapeake Bay Program Stream Health FAIR		
		No		MD MBSS Benthic IBI Stream Health		N/A
		No				N/A
Barrier Blocks a Modeled BKT	,			BSS Combined IBI Stre		N/A
		37	VA INS	VA INSTAR mIBI Stream Health		N/A
# Rare Fish (HUC8)		0	PA IBI	Stream Health		Fair
, ,						
# Rare Mussel (HUC8)		2				

