Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00296** **ELMHURST**

Bay-wide Diadromous Tier	13
Bay-wide Resident Tier	6
Bay-wide Brook Trout Tier	8
NID ID	PA00296
State ID	PA00296
River Name	Roaring Brook
Dam Height (ft)	64
Dam Type	Masonry / Gravity / Earth
Latitude	41.3721
Longitude	-75.5413
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Roaring Brook
HUC 10	Lackawanna River
HUC 8	Upper Susquehanna-Lackawann
HUC 6	Upper Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.65
% Natural Cover in Upstream Drainage Area	81.28
% Forested in Upstream Drainage Area	66.03
% Agriculture in Upstream Drainage Area	8.68
% Natural Cover in ARA of Upstream Network	87.33
% Natural Cover in ARA of Downstream Network	69.92
% Forest Cover in ARA of Upstream Network	60.43
% Forest Cover in ARA of Downstream Network	53.29
% Agricultral Cover in ARA of Upstream Network	4.25
% Agricultral Cover in ARA of Downstream Network	1.06
% Impervious Surf in ARA of Upstream Network	1.48
% Impervious Surf in ARA of Downstream Network	3.73

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	68.42
% Tree Cover in ARA of Downstream Network	69.47
% Herbaceaous Cover in ARA of Upstream Network	17.25
% Herbaceaous Cover in ARA of Downstream Network	21.8
% Barren Cover in ARA of Upstream Network	0.26
% Barren Cover in ARA of Downstream Network	0.1
% Road Impervious in ARA of Upstream Network	1.21
% Road Impervious in ARA of Downstream Network	3.36
% Other Impervious in ARA of Upstream Network	2.4
% Other Impervious in ARA of Downstream Network	2.65

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)	32.83	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	57.89	# Downsteam Natural Barriers	1
Absolute Gain (mi)	25.06	# Downstream Hydropower Dams	4
# Size Classes in Total Network	3	# Downstream Dams with Passage	5
# Upstream Network Size Classes	2	# of Downstream Barriers	10

NFHAP Cumulative Disturbance Index	Low
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	22.55
% Conserved Land in 100m Buffer of Downstream Network	14.84
Density of Crossings in Upstream Network Watershed (#/m2)	0.89
Density of Crossings in Downstream Network Watershed (#/m2)	1.54
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	None Documented	Downstream Striped Bass	None Documented
Downstream Blueback	None Documented	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	None Documented

Presence of 1 or More Downstream Anadromous Species	None Docume
# Diadromous Species Downstream (incl eel)	0

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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