Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00004** **RAYSTOWN DAM**

Bay-wide Diadromous Tier	1
Bay-wide Resident Tier	1
Bay-wide Brook Trout Tier	N/A
NID ID	PA00004
State ID	PA00004
River Name	Raystown Branch Juniata River
Dam Height (ft)	225
Dam Type	Earth / Rockfill
Latitude	40.4346
Longitude	-78.0066
Passage Facilities	None Documented
Passage Year	N/A
Size Class	3a: Medium Tributary River (200
HUC 12	Raystown Lake-Raystown Branc
HUC 10	Lower Raystown Branch Juniata
HUC 8	Raystown
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.02
% Natural Cover in Upstream Drainage Area	70.42
% Forested in Upstream Drainage Area	68.31
% Agriculture in Upstream Drainage Area	22.61
% Natural Cover in ARA of Upstream Network	66.7
% Natural Cover in ARA of Downstream Network	63.5
% Forest Cover in ARA of Upstream Network	57.52
% Forest Cover in ARA of Downstream Network	52.34
% Agricultral Cover in ARA of Upstream Network	23.08
% Agricultral Cover in ARA of Downstream Network	23.41
% Impervious Surf in ARA of Upstream Network	1.58
% Impervious Surf in ARA of Downstream Network	2.58

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	58.94
% Tree Cover in ARA of Downstream Network	57.9
% Herbaceaous Cover in ARA of Upstream Network	29.57
% Herbaceaous Cover in ARA of Downstream Network	29.41
% Barren Cover in ARA of Upstream Network	0.25
% Barren Cover in ARA of Downstream Network	0.56
% Road Impervious in ARA of Upstream Network	1.14
% Road Impervious in ARA of Downstream Network	1.34
% Other Impervious in ARA of Upstream Network	1.41
% Other Impervious in ARA of Downstream Network	2.82

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)	1691.52	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	6199.19	# Downsteam Natural Barriers	0
Absolute Gain (mi)	1691.52	# Downstream Hydropower Dams	4
# Size Classes in Total Network	6	# Downstream Dams with Passage	5
# Upstream Network Size Classes	4	# of Downstream Barriers	5

NFHAP Cumulative Disturbance Index	Low
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	9.8
% Conserved Land in 100m Buffer of Downstream Network	8.38
Density of Crossings in Upstream Network Watershed (#/m2)	1.41
Density of Crossings in Downstream Network Watershed (#/m2)	1.21
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	Potential Current	Downstream Striped Bass	None Documented
Downstream Blueback	Potential Current	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	Current	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current

Presence of 1 or More Downstream Anadromous Species	Current
# Diadromous Species Downstream (incl eel)	2

Resident Fish

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)	29
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	1
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	NO_SCORE
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	Good

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