Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12174** **PINEY RUN DAM**

Diadromous Tier	3
Brook Trout Tier	N/A
Resident Tier	8
NID ID	MD00139
State ID	12174
River Name	Piney Run
Dam Height (ft)	73
Dam Type	Earth
Latitude	39.3881
Longitude	-76.9759
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Piney Run
HUC 10	South Branch Patapsco River
HUC 8	Gunpowder-Patapsco
HUC 6	Upper Chesapeake
HUC 4	Upper Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.84
% Natural Cover in Upstream Drainage Area	33.08
% Forested in Upstream Drainage Area	25.76
% Agriculture in Upstream Drainage Area	52.02
% Natural Cover in ARA of Upstream Network	62.31
% Natural Cover in ARA of Downstream Network	58.24
% Forest Cover in ARA of Upstream Network	37.02
% Forest Cover in ARA of Downstream Network	49.26
% Agricultral Cover in ARA of Upstream Network	28.9
% Agricultral Cover in ARA of Downstream Network	27.99
% Impervious Surf in ARA of Upstream Network	1.09
% Impervious Surf in ARA of Downstream Network	1.74

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	48.85
% Tree Cover in ARA of Downstream Network	61.91
% Herbaceaous Cover in ARA of Upstream Network	31.42
% Herbaceaous Cover in ARA of Downstream Network	34.31
% Barren Cover in ARA of Upstream Network	0.86
% Barren Cover in ARA of Downstream Network	0.07
% Road Impervious in ARA of Upstream Network	0.9
% Road Impervious in ARA of Downstream Network	1.16
% Other Impervious in ARA of Upstream Network	1.37
% Other Impervious in ARA of Downstream Network	2.15

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12174** **PINEY RUN DAM**

Network, System Type and Condition

Functional Upstream Network (mi)	25.02	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	208.66	# Downsteam Natural Barriers	1
Absolute Gain (mi)	25.02	# Downstream Hydropower Dams	0
# Size Classes in Total Network	3	# Downstream Dams with Passage	1
# Upstream Network Size Classes	2	# of Downstream Barriers	2

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	27.64
% Conserved Land in 100m Buffer of Downstream Network	22.35
Density of Crossings in Upstream Network Watershed (#/m2)	0.69
Density of Crossings in Downstream Network Watershed (#/m2)	1.34
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	Current	Downstream Striped Bass	None Documented
Downstream Blueback	Current	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	Current
# Diadromous Species Downstream (incl eel)	3

Resident Fish

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

Stream Health

Chesapeake Bay Program Stream Health	POOR
MD MBSS Benthic IBI Stream Health	Fair
MD MBSS Fish IBI Stream Health	Good
MD MBSS Combined IBI Stream Health	Fair
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	N/A

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy