Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_14-087** **PENNS CAVE**

Bay-wide Diadromous Tier	15
Bay-wide Resident Tier	10
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	14-087
River Name	Penns Creek
Dam Height (ft)	25
Dam Type	Earth
Latitude	40.8818
Longitude	-77.607
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Headwaters Penns Creek
HUC 10	Penns Creek
HUC 8	Lower Susquehanna-Penns
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.4
% Natural Cover in Upstream Drainage Area	67.16
% Forested in Upstream Drainage Area	67
% Agriculture in Upstream Drainage Area	28.87
% Natural Cover in ARA of Upstream Network	58.26
% Natural Cover in ARA of Downstream Network	60.59
% Forest Cover in ARA of Upstream Network	57.48
% Forest Cover in ARA of Downstream Network	59.89
% Agricultral Cover in ARA of Upstream Network	38.61
% Agricultral Cover in ARA of Downstream Network	27.5
% Impervious Surf in ARA of Upstream Network	0.35
% Impervious Surf in ARA of Downstream Network	1.42

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	52.98
% Tree Cover in ARA of Downstream Network	57.12
% Herbaceaous Cover in ARA of Upstream Network	45.03
% Herbaceaous Cover in ARA of Downstream Network	39.13
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.15
% Road Impervious in ARA of Upstream Network	0.56
% Road Impervious in ARA of Downstream Network	1.16
% Other Impervious in ARA of Upstream Network	0.8
% Other Impervious in ARA of Downstream Network	1.51

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)	12.95	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	149.36	# Downsteam Natural Barriers	0
Absolute Gain (mi)	12.95	# Downstream Hydropower Dams	4
# Size Classes in Total Network	3	# Downstream Dams with Passage	5
# Upstream Network Size Classes	2	# of Downstream Barriers	6

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	6.49
Density of Crossings in Upstream Network Watershed (#/m2)	0.7
Density of Crossings in Downstream Network Watershed (#/m2)	1.27
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	Current

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

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)	Yes
Native Fish Species Richness (HUC8)	33
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	3
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	POOR
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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