Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_14-050** **PENNS CREEK FEED MILL**

Bay-wide Diadromous Tier	2
Bay-wide Resident Tier	3
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	14-050
River Name	Penns Creek
Dam Height (ft)	15
Dam Type	Concrete
Latitude	40.8559
Longitude	-77.4902
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 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	0.84
% Natural Cover in Upstream Drainage Area	62.84
% Forested in Upstream Drainage Area	62.45
% Agriculture in Upstream Drainage Area	30.54
% Natural Cover in ARA of Upstream Network	60.59
% Natural Cover in ARA of Downstream Network	63.5
% Forest Cover in ARA of Upstream Network	59.89
% Forest Cover in ARA of Downstream Network	52.34
% Agricultral Cover in ARA of Upstream Network	27.5
% Agricultral Cover in ARA of Downstream Network	23.41
% Impervious Surf in ARA of Upstream Network	1.42
% Impervious Surf in ARA of Downstream Network	2.58

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	57.12
% Tree Cover in ARA of Downstream Network	57.9
% Herbaceaous Cover in ARA of Upstream Network	39.13
% Herbaceaous Cover in ARA of Downstream Network	29.41
% Barren Cover in ARA of Upstream Network	0.15
% Barren Cover in ARA of Downstream Network	0.56
% Road Impervious in ARA of Upstream Network	1.16
% Road Impervious in ARA of Downstream Network	1.34
% Other Impervious in ARA of Upstream Network	1.51
% 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)	136.41	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	4644.08	# Downsteam Natural Barriers	0
Absolute Gain (mi)	136.41	# Downstream Hydropower Dams	4
# Size Classes in Total Network	6	# Downstream Dams with Passage	5
# Upstream Network Size Classes	3	# of Downstream Barriers	5

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	6.49
% Conserved Land in 100m Buffer of Downstream Network	8.38
Density of Crossings in Upstream Network Watershed (#/m2)	1.27
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)	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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