

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_14-045** **LOWER**

Bay-wide Diadromous Tier	2
Bay-wide Resident Tier	4
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	14-045
River Name	Elk Creek
Dam Height (ft)	3.5
Dam Type	Concrete
Latitude	40.8933
Longitude	-77.4751
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi)
HUC 12	Elk Creek
HUC 10	Pine Creek
HUC 8	Lower Susquehanna-Penns
HUC 6	Lower Susquehanna
HUC 4	Susquehanna



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.54	% Tree Cover in ARA of Upstream Network	50.86
% Natural Cover in Upstream Drainage Area	68.72	% Tree Cover in ARA of Downstream Network	57.9
% Forested in Upstream Drainage Area	68.6	% Herbaceous Cover in ARA of Upstream Network	46.2
% Agriculture in Upstream Drainage Area	25.87	% Herbaceous Cover in ARA of Downstream Network	29.41
% Natural Cover in ARA of Upstream Network	52.07	% Barren Cover in ARA of Upstream Network	0.11
% Natural Cover in ARA of Downstream Network	63.5	% Barren Cover in ARA of Downstream Network	0.56
% Forest Cover in ARA of Upstream Network	51.59	% Road Impervious in ARA of Upstream Network	0.84
% Forest Cover in ARA of Downstream Network	52.34	% Road Impervious in ARA of Downstream Network	1.34
% Agricultural Cover in ARA of Upstream Network	38.8	% Other Impervious in ARA of Upstream Network	1.36
% Agricultural Cover in ARA of Downstream Network	23.41	% Other Impervious in ARA of Downstream Network	2.82
% Impervious Surf in ARA of Upstream Network	1.15		
% Impervious Surf in ARA of Downstream Network	2.58		

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)	55.03	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	4562.7	# Downsteam Natural Barriers	0
Absolute Gain (mi)	55.03	# 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		15.88	
% Conserved Land in 100m Buffer of Downstream Network		8.38	
Density of Crossings in Upstream Network Watershed (#/m2)		0.58	
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
One or More DS Anadromous Species	Current	# Diadromous Sp Dnstrm (incl eel)	2
Resident Fish and Rare Species		Stream Health	
Barrier is in EBTJV BKT Catchment	No	Chesapeake Bay Program Stream Health	POOR
Barrier is in Modeled BKT Catchment (DeWeber)	No	MD MBSS Benthic IBI Stream Health	N/A
Barrier Blocks an EBTJV Catchment	No	MD MBSS Fish IBI Stream Health	N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No	MD MBSS Combined IBI Stream Health	N/A
Native Fish Species Richness (HUC8)	33	VA INSTAR mIBI Stream Health	N/A
# Rare Fish (HUC8)	0	PA IBI Stream Health	Fair
# Rare Mussel (HUC8)	3		
# Rare Crayfish (HUC8)	0		
Globally rare or fed listed fish/mussel sp HUC12	No	Rare fish or mussel sp in HUC12	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	Yes	Rare fish or mussel in upstream or downstream functional network	Yes

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf