

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: PA_36-001		CONESTOGA RIVER	LANCASTER CITY DAM
Bay-wide Diadromous Tier	3		
Bay-wide Resident Tier	5		
Bay-wide Brook Trout Tier	N/A		
NID ID			
State ID	36-001		
River Name	Conestoga River		
Dam Height (ft)	7		
Dam Type	Concrete		
Latitude	40.0512		
Longitude	-76.2762		
Passage Facilities	Denil		
Passage Year	1999		
Size Class	3a: Medium Tributary River (200		
HUC 12	Lower Conestoga River		
HUC 10	Conestoga River		
HUC 8	Lower Susquehanna		
HUC 6	Lower Susquehanna		
HUC 4	Susquehanna		

Landcover			
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	5.93	% Tree Cover in ARA of Upstream Network	26.39
% Natural Cover in Upstream Drainage Area	30.98	% Tree Cover in ARA of Downstream Network	43.49
% Forested in Upstream Drainage Area	24.54	% Herbaceous Cover in ARA of Upstream Network	56.96
% Agriculture in Upstream Drainage Area	46.72	% Herbaceous Cover in ARA of Downstream Network	26.39
% Natural Cover in ARA of Upstream Network	26.74	% Barren Cover in ARA of Upstream Network	1.04
% Natural Cover in ARA of Downstream Network	68.66	% Barren Cover in ARA of Downstream Network	0.07
% Forest Cover in ARA of Upstream Network	15.1	% Road Impervious in ARA of Upstream Network	1.89
% Forest Cover in ARA of Downstream Network	39.3	% Road Impervious in ARA of Downstream Network	0.97
% Agricultural Cover in ARA of Upstream Network	44.19	% Other Impervious in ARA of Upstream Network	9.06
% Agricultural Cover in ARA of Downstream Network	18.36	% Other Impervious in ARA of Downstream Network	4.17
% Impervious Surf in ARA of Upstream Network	7.34		
% Impervious Surf in ARA of Downstream Network	2.98		

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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CONESTOGA RIVER

LANCASTER CITY DAM

Network, System Type and Condition

Functional Upstream Network (mi)	27.34	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	158.26	# Downstream Natural Barriers	0
Absolute Gain (mi)	27.34	# Downstream Hydropower Dams	2
# Size Classes in Total Network	5	# Downstream Dams with Passage	2
# Upstream Network Size Classes	3	# of Downstream Barriers	2
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0		
% Conserved Land in 100m Buffer of Downstream Network	5.97		
Density of Crossings in Upstream Network Watershed (#/m2)	1.42		
Density of Crossings in Downstream Network Watershed (#/m2)	0.85		
Density of off-channel dams in Upstream Network Watershed (#/m2)	0		
Density of off-channel dams in Downstream Network Watershed (#/m2)	0.01		

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)	53
# Rare Fish (HUC8)	2
# 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	Poor

Metric descriptions can be found at:

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