Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12183** **LEONARD POND**

Bay-wide Diadromous Tier	17
Bay-wide Resident Tier	15
Bay-wide Brook Trout Tier	N/A
NID ID	MD00156
State ID	WIE06
River Name	Leonard Pond Run
Dam Height (ft)	11
Dam Type	Earth
Latitude	38.4234
Longitude	-75.5652
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	North Prong Wicomico River
HUC 10	Wicomico River
HUC 8	Tangier
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	2.02
% Natural Cover in Upstream Drainage Area	62.54
% Forested in Upstream Drainage Area	28.87
% Agriculture in Upstream Drainage Area	28.76
% Natural Cover in ARA of Upstream Network	59.76
% Natural Cover in ARA of Downstream Network	31.81
% Forest Cover in ARA of Upstream Network	34.76
% Forest Cover in ARA of Downstream Network	14.63
% Agricultral Cover in ARA of Upstream Network	31.14
% Agricultral Cover in ARA of Downstream Network	34.17
% Impervious Surf in ARA of Upstream Network	1.86
% Impervious Surf in ARA of Downstream Network	10.2

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	59.83
% Tree Cover in ARA of Downstream Network	40.05
% Herbaceaous Cover in ARA of Upstream Network	32.3
% Herbaceaous Cover in ARA of Downstream Network	44.72
% Barren Cover in ARA of Upstream Network	0.02
% Barren Cover in ARA of Downstream Network	0.46
% Road Impervious in ARA of Upstream Network	1.2
% Road Impervious in ARA of Downstream Network	3.25
% Other Impervious in ARA of Upstream Network	3.09
% Other Impervious in ARA of Downstream Network	9.44

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)	6.76	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	32.53	# Downsteam Natural Barriers	0
Absolute Gain (mi)	6.76	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	2

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	3.18
% Conserved Land in 100m Buffer of Downstream Network	4.58
Density of Crossings in Upstream Network Watershed (#/m2)	0.58
Density of Crossings in Downstream Network Watershed (#/m2)	0.94
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
One or More DS Anadromous Species	None Docume	# Diadromous Sp Dnstrm (incl eel)	1

Resident Fish and Rare Species

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)	31
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0
Globally rare or fed listed fish/mussel sp HUC12	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	No

Stream Health

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

Rare fish or mussel sp in HUC12	Yes
Rare fish or mussel in upstream or downstream functional network	No

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