Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_66-035** **LAKE WINOLA**

Diadromous Tier	17
Brook Trout Tier	N/A
Resident Tier	17
NID ID	
State ID	66-035
River Name	
Dam Height (ft)	5
Dam Type	Earth
Latitude	41.5091
Longitude	-75.8419
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Buttermilk Creek
HUC 10	Lower Susquehanna River
HUC 8	Upper Susquehanna-Tunkhanno
HUC 6	Upper Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	1.77
% Natural Cover in Upstream Drainage Area	53.55
% Forested in Upstream Drainage Area	33.67
% Agriculture in Upstream Drainage Area	33.48
% Natural Cover in ARA of Upstream Network	72.27
% Natural Cover in ARA of Downstream Network	45.46
% Forest Cover in ARA of Upstream Network	11.49
% Forest Cover in ARA of Downstream Network	31.39
% Agricultral Cover in ARA of Upstream Network	12.21
% Agricultral Cover in ARA of Downstream Network	43.89
% Impervious Surf in ARA of Upstream Network	2.45
% Impervious Surf in ARA of Downstream Network	1.34

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	23.24
% Tree Cover in ARA of Downstream Network	49.36
% Herbaceaous Cover in ARA of Upstream Network	13.46
% Herbaceaous Cover in ARA of Downstream Network	44
% Barren Cover in ARA of Upstream Network	0.05
% Barren Cover in ARA of Downstream Network	0.1
% Road Impervious in ARA of Upstream Network	1.73
% Road Impervious in ARA of Downstream Network	1.72
% Other Impervious in ARA of Upstream Network	7.78
% Other Impervious in ARA of Downstream Network	2.88

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)	0.03	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	32.25	# Downsteam Natural Barriers	0
Absolute Gain (mi)	0.03	# Downstream Hydropower Dams	4
# Size Classes in Total Network	2	# Downstream Dams with Passage	5
# Upstream Network Size Classes	0	# of Downstream Barriers	7

NFHAP Cumulative Disturbance Index	Moderate
Dam is on Conserved Land	Yes
% Conserved Land in 100m Buffer of Upstream Network	91.86
% Conserved Land in 100m Buffer of Downstream Network	0.67
Density of Crossings in Upstream Network Watershed (#/m2)	0
Density of Crossings in Downstream Network Watershed (#/m2)	0.99
Density of off-channel dams in Upstream Network Watershed (#/m2)	0
Density of off-channel dams in Downstream Network Watershed (#/m2)	0.03

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	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	34
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	2
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	FAIR
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	Fair

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