Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00338** **LAKE WILLIAMS**

Bay-wide Diadromous Tier	9
Bay-wide Resident Tier	6
Bay-wide Brook Trout Tier	N/A
NID ID	PA00338
State ID	PA00338
River Name	East Branch Codorus Creek
Dam Height (ft)	58
Dam Type	Earth
Latitude	39.8898
Longitude	-76.7299
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi
HUC 12	Lake Redman-Lake Williams-Eas
HUC 10	South Branch Codorus Creek
HUC 8	Lower Susquehanna
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	3.6
% Natural Cover in Upstream Drainage Area	33.25
% Forested in Upstream Drainage Area	27.71
% Agriculture in Upstream Drainage Area	48.08
% Natural Cover in ARA of Upstream Network	90.57
% Natural Cover in ARA of Downstream Network	41.5
% Forest Cover in ARA of Upstream Network	37.36
% Forest Cover in ARA of Downstream Network	34.33
% Agricultral Cover in ARA of Upstream Network	0.86
% Agricultral Cover in ARA of Downstream Network	34.15
% Impervious Surf in ARA of Upstream Network	1.69
% Impervious Surf in ARA of Downstream Network	6.04

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	43.57
% Tree Cover in ARA of Downstream Network	53.24
% Herbaceaous Cover in ARA of Upstream Network	11.98
% Herbaceaous Cover in ARA of Downstream Network	38.11
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.5
% Road Impervious in ARA of Upstream Network	0.41
% Road Impervious in ARA of Downstream Network	1.77
% Other Impervious in ARA of Upstream Network	1.2
% Other Impervious in ARA of Downstream Network	4.97

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)	2.96	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	136.2	# Downsteam Natural Barriers	0
Absolute Gain (mi)	2.96	# Downstream Hydropower Dams	3
# Size Classes in Total Network	4	# Downstream Dams with Passage	3
# Upstream Network Size Classes	2	# of Downstream Barriers	5

NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	87.84
% Conserved Land in 100m Buffer of Downstream Network	0.85
Density of Crossings in Upstream Network Watershed (#/m2)	0.59
Density of Crossings in Downstream Network Watershed (#/m2)	1.4
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	Historical	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	Historical	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current

Presence of 1 or More Downstream Anadromous Species	Historical
# 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	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	Fair

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