Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_01-067** **KITZMILLER DIVERSION**

Diadromous Tier	14
Brook Trout Tier	N/A
Resident Tier	13
NID ID	
State ID	01-067
River Name	South Branch Conewago Creek
Dam Height (ft)	5
Dam Type	Concrete
Latitude	39.7669
Longitude	-77.0149
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Headwaters South Branch Cone
HUC 10	South Branch Conewago Creek
HUC 8	Lower Susquehanna
HUC 6	Lower Susquehanna
HUC 4	Susquehanna

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	2.5
% Natural Cover in Upstream Drainage Area	35.51
% Forested in Upstream Drainage Area	26.31
% Agriculture in Upstream Drainage Area	47.38
% Natural Cover in ARA of Upstream Network	39.4
% Natural Cover in ARA of Downstream Network	21.21
% Forest Cover in ARA of Upstream Network	29.37
% Forest Cover in ARA of Downstream Network	10.56
% Agricultral Cover in ARA of Upstream Network	44.28
% Agricultral Cover in ARA of Downstream Network	72.76
% Impervious Surf in ARA of Upstream Network	1.33
% Impervious Surf in ARA of Downstream Network	0.81

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	48.35
% Tree Cover in ARA of Downstream Network	25.19
% Herbaceaous Cover in ARA of Upstream Network	47.36
% Herbaceaous Cover in ARA of Downstream Network	70.69
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.31
% Road Impervious in ARA of Upstream Network	1.66
% Road Impervious in ARA of Downstream Network	1.03
% Other Impervious in ARA of Upstream Network	1.63
% Other Impervious in ARA of Downstream Network	1.85

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_01-067** **KITZMILLER DIVERSION**

Network, System Type and Condition

Functional Upstream Network (mi)	11.02	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	35.07	# Downsteam Natural Barriers	0
Absolute Gain (mi)	11.02	# Downstream Hydropower Dams	3
# Size Classes in Total Network	2	# Downstream Dams with Passage	3
# Upstream Network Size Classes	2	# of Downstream Barriers	12

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0
% Conserved Land in 100m Buffer of Downstream Network	0
Density of Crossings in Upstream Network Watershed (#/m2)	1.29
Density of Crossings in Downstream Network Watershed (#/m2)	1.2
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	Historical	Downstream Striped Bass	None Documented
Downstream Blueback	Historical	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	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	Poor

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy