Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1011** **SWIFT CREEK RESERVOIR DAM**

Bay-wide Diadromous Tier	9
Bay-wide Resident Tier	3
Bay-wide Brook Trout Tier	N/A
NID ID	VA04112
State ID	1011
River Name	Swift Creek
Dam Height (ft)	44
Dam Type	Earth
Latitude	37.4168
Longitude	-77.6478
Passage Facilities	None Documented
Passage Year	N/A
Size Class	2: Small River (38.61 - 200 sq mi
HUC 12	Third Branch-Swift Creek
HUC 10	Swift Creek
HUC 8	Appomattox
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	4.42
% Natural Cover in Upstream Drainage Area	71.99
% Forested in Upstream Drainage Area	59.65
% Agriculture in Upstream Drainage Area	7.5
% Natural Cover in ARA of Upstream Network	82.63
% Natural Cover in ARA of Downstream Network	68.27
% Forest Cover in ARA of Upstream Network	54.21
% Forest Cover in ARA of Downstream Network	54.87
% Agricultral Cover in ARA of Upstream Network	3.32
% Agricultral Cover in ARA of Downstream Network	3.58
% Impervious Surf in ARA of Upstream Network	2.78
% Impervious Surf in ARA of Downstream Network	5.55

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	68.98
% Tree Cover in ARA of Downstream Network	66.22
% Herbaceaous Cover in ARA of Upstream Network	11.08
% Herbaceaous Cover in ARA of Downstream Network	17.17
% Barren Cover in ARA of Upstream Network	0.16
% Barren Cover in ARA of Downstream Network	1.79
% Road Impervious in ARA of Upstream Network	2.04
% Road Impervious in ARA of Downstream Network	4.38
% Other Impervious in ARA of Upstream Network	3.06
% Other Impervious in ARA of Downstream Network	5.49

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)	186.72	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	253.33	# Downsteam Natural Barriers	0
Absolute Gain (mi)	66.61	# Downstream Hydropower Dams	1
# Size Classes in Total Network	3	# Downstream Dams with Passage	0
# Upstream Network Size Classes	3	# of Downstream Barriers	3

NFHAP Cumulative Disturbance Index	High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	0.45
% Conserved Land in 100m Buffer of Downstream Network	23.61
Density of Crossings in Upstream Network Watershed (#/m2)	0.99
Density of Crossings in Downstream Network Watershed (#/m2)	1.45
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	None Documented
One or More DS Anadromous Species	Historical	# Diadromous Sp Dnstrm (incl eel)	0

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)	58
# Rare Fish (HUC8)	1
# Rare Mussel (HUC8)	3
# 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	N/A
MD MBSS Fish IBI Stream Health	N/A
MD MBSS Combined IBI Stream Health	N/A
VA INSTAR mIBI Stream Health	Very High
PA IBI Stream Health	N/A
Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	No

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