

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_37**

MELLOTT DAM

Diadromous Tier	1
Brook Trout Tier	N/A
Resident Tier	8
NID ID	VA06119
State ID	37
River Name	Carter Run
Dam Height (ft)	18
Dam Type	Gravity
Latitude	38.8591
Longitude	-77.9013
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Carter Run
HUC 10	Carter Run-Rappahannock River
HUC 8	Rapidan-Upper Rappahannock
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.45	% Tree Cover in ARA of Upstream Network	46.72
% Natural Cover in Upstream Drainage Area	18.9	% Tree Cover in ARA of Downstream Network	62.07
% Forested in Upstream Drainage Area	17.31	% Herbaceous Cover in ARA of Upstream Network	47.03
% Agriculture in Upstream Drainage Area	68.29	% Herbaceous Cover in ARA of Downstream Network	28.22
% Natural Cover in ARA of Upstream Network	24.53	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	61.15	% Barren Cover in ARA of Downstream Network	0.27
% Forest Cover in ARA of Upstream Network	19.46	% Road Impervious in ARA of Upstream Network	0.98
% Forest Cover in ARA of Downstream Network	38.92	% Road Impervious in ARA of Downstream Network	0.91
% Agricultural Cover in ARA of Upstream Network	66.52	% Other Impervious in ARA of Upstream Network	1.59
% Agricultural Cover in ARA of Downstream Network	32.21	% Other Impervious in ARA of Downstream Network	1.01
% Impervious Surf in ARA of Upstream Network	0.31		
% Impervious Surf in ARA of Downstream Network	1.05		

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)	5.69	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	3334.71	# Downstream Natural Barriers	0
Absolute Gain (mi)	5.69	# Downstream Hydropower Dams	0
# Size Classes in Total Network	5	# Downstream Dams with Passage	0
# Upstream Network Size Classes	1	# of Downstream Barriers	0
NFHAP Cumulative Disturbance Index	High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	2.66		
% Conserved Land in 100m Buffer of Downstream Network	20.81		
Density of Crossings in Upstream Network Watershed (#/m2)	2.42		
Density of Crossings in Downstream Network Watershed (#/m2)	0.91		
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	Current	Downstream Striped Bass	None Documented
Downstream Blueback	Current	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	Current		
# Diadromous Species Downstream (incl eel)	3		

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)	38
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	EXCELLENT
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

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