

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_846**

MEADOW CREEK FALLS DAM

Bay-wide Diadromous Tier	8
Bay-wide Resident Tier	6
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	846
River Name	Meadow Creek
Dam Height (ft)	0
Dam Type	
Latitude	37.4846
Longitude	-80.1281
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Meadow Creek
HUC 10	Upper Craig Creek
HUC 8	Upper James
HUC 6	James
HUC 4	Lower Chesapeake



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.52	% Tree Cover in ARA of Upstream Network	48.53
% Natural Cover in Upstream Drainage Area	61.11	% Tree Cover in ARA of Downstream Network	95.53
% Forested in Upstream Drainage Area	48.45	% Herbaceous Cover in ARA of Upstream Network	48.67
% Agriculture in Upstream Drainage Area	32.98	% Herbaceous Cover in ARA of Downstream Network	0.17
% Natural Cover in ARA of Upstream Network	50.12	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	82.89	% Barren Cover in ARA of Downstream Network	0
% Forest Cover in ARA of Upstream Network	49.9	% Road Impervious in ARA of Upstream Network	1.89
% Forest Cover in ARA of Downstream Network	82.89	% Road Impervious in ARA of Downstream Network	3.82
% Agricultural Cover in ARA of Upstream Network	38.5	% Other Impervious in ARA of Upstream Network	0.91
% Agricultural Cover in ARA of Downstream Network	0	% Other Impervious in ARA of Downstream Network	0.49
% Impervious Surf in ARA of Upstream Network	0.71		
% Impervious Surf in ARA of Downstream Network	1.32		

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)	22.44	Upstream Size Class Gain (#)	2
Total Functional Network (mi)	22.61	# Downstream Natural Barriers	1
Absolute Gain (mi)	0.17	# Downstream Hydropower Dams	8
# Size Classes in Total Network	2	# Downstream Dams with Passage	4
# Upstream Network Size Classes	2	# of Downstream Barriers	12
NFHAP Cumulative Disturbance Index	Moderate		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	4.56		
% Conserved Land in 100m Buffer of Downstream Network	12.06		
Density of Crossings in Upstream Network Watershed (#/m2)	1.57		
Density of Crossings in Downstream Network Watershed (#/m2)	0		
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
Presence of 1 or More Downstream Anadromous Species	Historical		
# Diadromous Species Downstream (incl eel)	0		

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)	47
# Rare Fish (HUC8)	2
# Rare Mussel (HUC8)	6
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	GOOD
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	Moderate
PA IBI Stream Health	N/A

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