Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1238** **MEADOW GROVE FARM DAM**

Bay-wide Diadromous Tier	20
Bay-wide Resident Tier	14
Bay-wide Brook Trout Tier	N/A
NID ID	VA10726
State ID	1238
River Name	
Dam Height (ft)	21
Dam Type	Gravity
Latitude	39.0662
Longitude	-77.8162
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Beaverdam Creek
HUC 10	North Fork Goose Creek
HUC 8	Middle Potomac-Catoctin
HUC 6	Potomac
HUC 4	Potomac

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.13
% Natural Cover in Upstream Drainage Area	24.15
% Forested in Upstream Drainage Area	21.73
% Agriculture in Upstream Drainage Area	73.75
% Natural Cover in ARA of Upstream Network	35.03
% Natural Cover in ARA of Downstream Network	46.04
% Forest Cover in ARA of Upstream Network	30.44
% Forest Cover in ARA of Downstream Network	43.5
% Agricultral Cover in ARA of Upstream Network	63.27
% Agricultral Cover in ARA of Downstream Network	47.41
% Impervious Surf in ARA of Upstream Network	0.1
% Impervious Surf in ARA of Downstream Network	0.49

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	33.68
% Tree Cover in ARA of Downstream Network	59.75
% Herbaceaous Cover in ARA of Upstream Network	58.82
% Herbaceaous Cover in ARA of Downstream Network	37.32
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.02
% Road Impervious in ARA of Upstream Network	0.4
% Road Impervious in ARA of Downstream Network	0.78
% Other Impervious in ARA of Upstream Network	1.88
% Other Impervious in ARA of Downstream Network	1.01

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)	1.34	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	798.32	# Downsteam Natural Barriers	1
Absolute Gain (mi)	1.34	# Downstream Hydropower Dams	0
# Size Classes in Total Network	4	# Downstream Dams with Passage	1
# Upstream Network Size Classes	1	# of Downstream Barriers	4

NFHAP Cumulative Disturbance Index	Very High
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	40.29
% Conserved Land in 100m Buffer of Downstream Network	38.26
Density of Crossings in Upstream Network Watershed (#/m2)	0.75
Density of Crossings in Downstream Network Watershed (#/m2)	1.27
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	None Documented	Downstream Striped Bass	None Documented
Downstream Blueback	None Documented	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	None Docume
# 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)	51
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# 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	Moderate
PA IBI Stream Health	N/A

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