Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_735** **MT. BERNARD DAM**

Diadromous Tier	4
Brook Trout Tier	N/A
Resident Tier	1
NID ID	VA07502
State ID	735
River Name	Courthouse Creek
Dam Height (ft)	16
Dam Type	Earth
Latitude	37.6662
Longitude	-77.8534
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Beaverdam Creek
HUC 10	Lickinghole Creek-James River
HUC 8	Middle James-Willis
HUC 6	James
HUC 4	Lower Chesapeake

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.86
% Natural Cover in Upstream Drainage Area	79.76
% Forested in Upstream Drainage Area	72.32
% Agriculture in Upstream Drainage Area	13.34
% Natural Cover in ARA of Upstream Network	89.23
% Natural Cover in ARA of Downstream Network	79.33
% Forest Cover in ARA of Upstream Network	70.55
% Forest Cover in ARA of Downstream Network	65.28
% Agricultral Cover in ARA of Upstream Network	7.71
% Agricultral Cover in ARA of Downstream Network	16.03
% Impervious Surf in ARA of Upstream Network	0.3
% Impervious Surf in ARA of Downstream Network	0.71

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	86.11
% Tree Cover in ARA of Downstream Network	79.1
% Herbaceaous Cover in ARA of Upstream Network	8.8
% Herbaceaous Cover in ARA of Downstream Network	15.73
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0.1
% Road Impervious in ARA of Upstream Network	0.5
% Road Impervious in ARA of Downstream Network	0.6
% Other Impervious in ARA of Upstream Network	0.7
% Other Impervious in ARA of Downstream Network	0.78

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)	32.99	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	5464.01	# Downsteam Natural Barriers	0
Absolute Gain (mi)	32.99	# Downstream Hydropower Dams	2
# Size Classes in Total Network	6	# Downstream Dams with Passage	4
# Upstream Network Size Classes	2	# of Downstream Barriers	4

NFHAP Cumulative Disturbance Index	Low
Dam is on Conserved Land	No
% Conserved Land in 100m Buffer of Upstream Network	8.55
% Conserved Land in 100m Buffer of Downstream Network	11.23
Density of Crossings in Upstream Network Watershed (#/m2)	0.51
Density of Crossings in Downstream Network Watershed (#/m2)	0.84
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	Potential Current	Downstream Striped Bass	None Documented
Downstream Blueback	Potential 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	Potential Curre
# 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	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	51
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	3
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	FAIR
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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