

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1129**

WUNDER POND DAM

Bay-wide Diadromous Tier	19
Bay-wide Resident Tier	13
Bay-wide Brook Trout Tier	N/A
NID ID	VA17109
State ID	1129
River Name	Holmans Creek
Dam Height (ft)	24.5
Dam Type	Gravity
Latitude	38.7159
Longitude	-78.7626
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Holmans Creek-North Fork Shen
HUC 10	Linville Creek-North Fork Shena
HUC 8	North Fork Shenandoah
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.32	% Tree Cover in ARA of Upstream Network	33.15
% Natural Cover in Upstream Drainage Area	34.98	% Tree Cover in ARA of Downstream Network	41.96
% Forested in Upstream Drainage Area	34.29	% Herbaceous Cover in ARA of Upstream Network	59.04
% Agriculture in Upstream Drainage Area	61.31	% Herbaceous Cover in ARA of Downstream Network	50.3
% Natural Cover in ARA of Upstream Network	40.1	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	36.27	% Barren Cover in ARA of Downstream Network	0.18
% Forest Cover in ARA of Upstream Network	32.49	% Road Impervious in ARA of Upstream Network	0.77
% Forest Cover in ARA of Downstream Network	34.07	% Road Impervious in ARA of Downstream Network	2.4
% Agricultural Cover in ARA of Upstream Network	57.92	% Other Impervious in ARA of Upstream Network	0.98
% Agricultural Cover in ARA of Downstream Network	52.05	% Other Impervious in ARA of Downstream Network	3.31
% Impervious Surf in ARA of Upstream Network	0.12		
% Impervious Surf in ARA of Downstream Network	1.93		

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)	14.11	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	835.23	# Downstream Natural Barriers	1
Absolute Gain (mi)	14.11	# Downstream Hydropower Dams	5
# Size Classes in Total Network	4	# Downstream Dams with Passage	3
# Upstream Network Size Classes	2	# of Downstream Barriers	9
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0		
% Conserved Land in 100m Buffer of Downstream Network	9.35		
Density of Crossings in Upstream Network Watershed (#/m2)	1.37		
Density of Crossings in Downstream Network Watershed (#/m2)	1.35		
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
One or More DS Anadromous Species	None Docume	# 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	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes
Native Fish Species Richness (HUC8)	28
# Rare Fish (HUC8)	0
# 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	Moderate
PA IBI Stream Health	N/A

Rare fish or mussel sp in HUC12	No
Rare fish or mussel in upstream or downstream functional network	Yes

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