

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1080**

SMITH DAM

Bay-wide Diadromous Tier	19
Bay-wide Resident Tier	16
Bay-wide Brook Trout Tier	N/A
NID ID	VA01526
State ID	1080
River Name	
Dam Height (ft)	15
Dam Type	Gravity
Latitude	38.1152
Longitude	-78.9471
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Meadow Run
HUC 10	Christians Creek
HUC 8	South Fork Shenandoah
HUC 6	Potomac
HUC 4	Potomac



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	3.52	% Tree Cover in ARA of Upstream Network	3.51
% Natural Cover in Upstream Drainage Area	15.05	% Tree Cover in ARA of Downstream Network	43.94
% Forested in Upstream Drainage Area	14.66	% Herbaceous Cover in ARA of Upstream Network	85.62
% Agriculture in Upstream Drainage Area	65.48	% Herbaceous Cover in ARA of Downstream Network	50.44
% Natural Cover in ARA of Upstream Network	22.51	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	33.17	% Barren Cover in ARA of Downstream Network	0.03
% Forest Cover in ARA of Upstream Network	14.62	% Road Impervious in ARA of Upstream Network	0
% Forest Cover in ARA of Downstream Network	32.05	% Road Impervious in ARA of Downstream Network	1.87
% Agricultural Cover in ARA of Upstream Network	73.39	% Other Impervious in ARA of Upstream Network	0.64
% Agricultural Cover in ARA of Downstream Network	50.49	% Other Impervious in ARA of Downstream Network	2.07
% Impervious Surf in ARA of Upstream Network	0.81		
% Impervious Surf in ARA of Downstream Network	3.12		

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1080**

SMITH DAM

Network, System Type and Condition

Functional Upstream Network (mi)	3.56	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	764.14	# Downstream Natural Barriers	2
Absolute Gain (mi)	3.56	# Downstream Hydropower Dams	4
# Size Classes in Total Network	4	# Downstream Dams with Passage	3
# Upstream Network Size Classes	1	# of Downstream Barriers	9
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0.07		
% Conserved Land in 100m Buffer of Downstream Network	16.12		
Density of Crossings in Upstream Network Watershed (#/m2)	0.88		
Density of Crossings in Downstream Network Watershed (#/m2)	1.85		
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 Documented		
# 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	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	35
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	0
# 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	No Data
PA IBI Stream Health	N/A

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf