

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_21-028**

SPRINGFIELD RESERVOIR

Bay-wide Diadromous Tier	12
Bay-wide Resident Tier	19
Bay-wide Brook Trout Tier	20
NID ID	
State ID	21-028
River Name	Big Spring Creek
Dam Height (ft)	11
Dam Type	Concrete
Latitude	40.1303
Longitude	-77.4076
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Big Spring Creek-Conodoguinet
HUC 10	Middle Conodoguinet Creek
HUC 8	Lower Susquehanna-Swatara
HUC 6	Lower Susquehanna
HUC 4	Susquehanna



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	1.32	% Tree Cover in ARA of Upstream Network	60.9
% Natural Cover in Upstream Drainage Area	23.02	% Tree Cover in ARA of Downstream Network	47.71
% Forested in Upstream Drainage Area	22.58	% Herbaceous Cover in ARA of Upstream Network	31.57
% Agriculture in Upstream Drainage Area	68.91	% Herbaceous Cover in ARA of Downstream Network	37.99
% Natural Cover in ARA of Upstream Network	45.45	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	34.97	% Barren Cover in ARA of Downstream Network	0.57
% Forest Cover in ARA of Upstream Network	45.45	% Road Impervious in ARA of Upstream Network	3.24
% Forest Cover in ARA of Downstream Network	26.59	% Road Impervious in ARA of Downstream Network	3.14
% Agricultural Cover in ARA of Upstream Network	26.14	% Other Impervious in ARA of Upstream Network	2.04
% Agricultural Cover in ARA of Downstream Network	37.81	% Other Impervious in ARA of Downstream Network	4.9
% Impervious Surf in ARA of Upstream Network	5.45		
% Impervious Surf in ARA of Downstream Network	5.97		

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)	0.14	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	5.56	# Downstream Natural Barriers	0
Absolute Gain (mi)	0.14	# Downstream Hydropower Dams	5
# Size Classes in Total Network	2	# Downstream Dams with Passage	7
# Upstream Network Size Classes	0	# of Downstream Barriers	8
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	Yes		
% Conserved Land in 100m Buffer of Upstream Network	60.48		
% Conserved Land in 100m Buffer of Downstream Network	20.24		
Density of Crossings in Upstream Network Watershed (#/m2)	0		
Density of Crossings in Downstream Network Watershed (#/m2)	1.16		
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	Current
Presence of 1 or More Downstream Anadromous Species	Historical		
# Diadromous Species Downstream (incl eel)	1		

Resident Fish

Barrier is in EBTJV BKT Catchment	Yes
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)	38
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	2
# 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	N/A
PA IBI Stream Health	Fair

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf