

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	# Downsteam 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
One or More DS Anadromous Species	Historical	# Diadromous Sp Dnstrm (incl eel)	1
Resident Fish and Rare Species		Stream Health	
Barrier is in EBTJV BKT Catchment	Yes	Chesapeake Bay Program Stream Health	POOR
Barrier is in Modeled BKT Catchment (DeWeber)	No	MD MBSS Benthic IBI Stream Health	N/A
Barrier Blocks an EBTJV Catchment	No	MD MBSS Fish IBI Stream Health	N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No	MD MBSS Combined IBI Stream Health	N/A
Native Fish Species Richness (HUC8)	38	VA INSTAR mIBI Stream Health	N/A
# Rare Fish (HUC8)	0	PA IBI Stream Health	Fair
# Rare Mussel (HUC8)	2		
# Rare Crayfish (HUC8)	0		
Globally rare or fed listed fish/mussel sp HUC12	No	Rare fish or mussel sp in HUC12	No
Globally rare or fed listed fish/mussel sp in upstream or downstream functional network	No	Rare fish or mussel in upstream or downstream functional network	No

Metric descriptions can be found at:

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