

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_PA00002** **ALVIN R BUSH DAM**

Bay-wide Diadromous Tier	5
Bay-wide Resident Tier	3
Bay-wide Brook Trout Tier	N/A
NID ID	PA00002
State ID	PA00002
River Name	Kettle Creek
Dam Height (ft)	165
Dam Type	Earth
Latitude	41.3581
Longitude	-77.9227
Passage Facilities	None Documented
Passage Year	N/A
Size Class	3a: Medium Tributary River (200
HUC 12	Lower Kettle Creek
HUC 10	Kettle Creek
HUC 8	Middle West Branch Susquehan
HUC 6	West Branch Susquehanna
HUC 4	Susquehanna



Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.05	% Tree Cover in ARA of Upstream Network	89.82
% Natural Cover in Upstream Drainage Area	94.72	% Tree Cover in ARA of Downstream Network	81.88
% Forested in Upstream Drainage Area	89.36	% Herbaceous Cover in ARA of Upstream Network	7.42
% Agriculture in Upstream Drainage Area	4.49	% Herbaceous Cover in ARA of Downstream Network	7.38
% Natural Cover in ARA of Upstream Network	93.1	% Barren Cover in ARA of Upstream Network	0.05
% Natural Cover in ARA of Downstream Network	93.95	% Barren Cover in ARA of Downstream Network	0
% Forest Cover in ARA of Upstream Network	87.55	% Road Impervious in ARA of Upstream Network	0.4
% Forest Cover in ARA of Downstream Network	82.59	% Road Impervious in ARA of Downstream Network	1.47
% Agricultural Cover in ARA of Upstream Network	5.26	% Other Impervious in ARA of Upstream Network	0.18
% Agricultural Cover in ARA of Downstream Network	1.68	% Other Impervious in ARA of Downstream Network	0.62
% Impervious Surf in ARA of Upstream Network	0.09		
% Impervious Surf in ARA of Downstream Network	1.06		

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)	261.67	Upstream Size Class Gain (#)	2
Total Functional Network (mi)	267.09	# Downstream Natural Barriers	0
Absolute Gain (mi)	5.42	# Downstream Hydropower Dams	4
# Size Classes in Total Network	4	# Downstream Dams with Passage	6
# Upstream Network Size Classes	4	# of Downstream Barriers	9
NFHAP Cumulative Disturbance Index	Low		
Dam is on Conserved Land	Yes		
% Conserved Land in 100m Buffer of Upstream Network	85.29		
% Conserved Land in 100m Buffer of Downstream Network	90.8		
Density of Crossings in Upstream Network Watershed (#/m2)	0.37		
Density of Crossings in Downstream Network Watershed (#/m2)	0.23		
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	Historical	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	No
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)	24
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	1
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	NO_SCORE
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	Good

Metric descriptions can be found at:

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