

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_21-017**

CARLISLE RAW WATER INTAKE

CAVE HILL DAM

Bay-wide Diadromous Tier	3
Bay-wide Resident Tier	5
Bay-wide Brook Trout Tier	N/A
NID ID	PA00585
State ID	21-017
River Name	Conodoguinet Creek
Dam Height (ft)	9
Dam Type	Stone
Latitude	40.2234
Longitude	-77.1898
Passage Facilities	Denil
Passage Year	2001
Size Class	3a: Medium Tributary River (200
HUC 12	Wertz Run-Conodoguinet Creek
HUC 10	Lower 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	2.62	% Tree Cover in ARA of Upstream Network	45.46
% Natural Cover in Upstream Drainage Area	38.69	% Tree Cover in ARA of Downstream Network	57.9
% Forested in Upstream Drainage Area	37.19	% Herbaceous Cover in ARA of Upstream Network	47.86
% Agriculture in Upstream Drainage Area	49.65	% Herbaceous Cover in ARA of Downstream Network	29.41
% Natural Cover in ARA of Upstream Network	41.63	% Barren Cover in ARA of Upstream Network	0.41
% Natural Cover in ARA of Downstream Network	63.5	% Barren Cover in ARA of Downstream Network	0.56
% Forest Cover in ARA of Upstream Network	29.92	% Road Impervious in ARA of Upstream Network	1.18
% Forest Cover in ARA of Downstream Network	52.34	% Road Impervious in ARA of Downstream Network	1.34
% Agricultural Cover in ARA of Upstream Network	46.69	% Other Impervious in ARA of Upstream Network	2.09
% Agricultural Cover in ARA of Downstream Network	23.41	% Other Impervious in ARA of Downstream Network	2.82
% Impervious Surf in ARA of Upstream Network	1.95		
% Impervious Surf in ARA of Downstream Network	2.58		

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)	65.08	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	4572.75	# Downstream Natural Barriers	0
Absolute Gain (mi)	65.08	# Downstream Hydropower Dams	4
# Size Classes in Total Network	6	# Downstream Dams with Passage	5
# Upstream Network Size Classes	3	# of Downstream Barriers	5
NFHAP Cumulative Disturbance Index	Not Scored / Unavailable at this scale		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0.21		
% Conserved Land in 100m Buffer of Downstream Network	8.38		
Density of Crossings in Upstream Network Watershed (#/m2)	0.69		
Density of Crossings in Downstream Network Watershed (#/m2)	1.21		
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	Potential Current	Downstream Striped Bass	None Documented
Downstream Blueback	Potential Current	Downstream Atlantic Sturgeon	None Documented
Downstream American Shad	Current	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current
Presence of 1 or More Downstream Anadromous Species	Current		
# Diadromous Species Downstream (incl eel)	2		

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)	Yes
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	VERY_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

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