

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA\_67-020**      **DUGANS**

Bay-wide Diadromous Tier	5
Bay-wide Resident Tier	3
Bay-wide Brook Trout Tier	N/A
NID ID	
State ID	67-020
River Name	Dugan Run
Dam Height (ft)	8
Dam Type	Earth
Latitude	40.0439
Longitude	-76.5907
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	Hartman Run-Susquehanna Rive
HUC 10	Susquehanna River
HUC 8	Lower Susquehanna
HUC 6	Lower Susquehanna
HUC 4	Susquehanna



### Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.09	% Tree Cover in ARA of Upstream Network	96.73
% Natural Cover in Upstream Drainage Area	93.16	% Tree Cover in ARA of Downstream Network	36.52
% Forested in Upstream Drainage Area	89.99	% Herbaceous Cover in ARA of Upstream Network	2.93
% Agriculture in Upstream Drainage Area	2.45	% Herbaceous Cover in ARA of Downstream Network	35.98
% Natural Cover in ARA of Upstream Network	96.23	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	54.86	% Barren Cover in ARA of Downstream Network	0.48
% Forest Cover in ARA of Upstream Network	96.05	% Road Impervious in ARA of Upstream Network	0.33
% Forest Cover in ARA of Downstream Network	25.9	% Road Impervious in ARA of Downstream Network	1.03
% Agricultural Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	0.01
% Agricultural Cover in ARA of Downstream Network	27.04	% Other Impervious in ARA of Downstream Network	4.29
% Impervious Surf in ARA of Upstream Network	0.04		
% Impervious Surf in ARA of Downstream Network	4.7		

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric\\_Glossary.pdf](http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf)

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**DUGANS**

### Network, System Type and Condition

Functional Upstream Network (mi)	0.89	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	554.95	# Downstream Natural Barriers	0
Absolute Gain (mi)	0.89	# Downstream Hydropower Dams	3
# Size Classes in Total Network	5	# Downstream Dams with Passage	3
# Upstream Network Size Classes	1	# of Downstream Barriers	3
NFHAP Cumulative Disturbance Index	Very High		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	0		
% Conserved Land in 100m Buffer of Downstream Network	2.2		
Density of Crossings in Upstream Network Watershed (#/m2)	0		
Density of Crossings in Downstream Network Watershed (#/m2)	1.27		
Density of off-channel dams in Upstream Network Watershed (#/m2)	0		
Density of off-channel dams in Downstream Network Watershed (#/m2)	0.01		

### Diadromous Fish

Downstream Alewife	Potential Current	Downstream Striped Bass	None Documented
Downstream Blueback	Potential Current	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	Potential Current		
# 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	Yes
Barrier Blocks a Modeled BKT Catchment (DeWeber)	No
Native Fish Species Richness (HUC8)	53
# Rare Fish (HUC8)	2
# Rare Mussel (HUC8)	3
# Rare Crayfish (HUC8)	0

### Stream Health

Chesapeake Bay Program Stream Health	FAIR
MD MBSS Benthic IBI Stream Health	Fair
MD MBSS Fish IBI Stream Health	Fair
MD MBSS Combined IBI Stream Health	Fair
VA INSTAR mIBI Stream Health	N/A
PA IBI Stream Health	Good

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