Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1107** **Lake Arrowhead** **Dry Run Dam #101**

Diadromous Tier	13	
Brook Trout Tier	13	
Resident Tier		10
NID ID	VA13902	
State ID	1107	
River Name	Dry Run	
Dam Height (ft)	67	
Dam Type	Gravity	
Latitude	38.6424	
Longitude	-78.3898	
Passage Facilities	None Documented	
Passage Year	N/A	
Size Class	1a: Headwater (0 - 3.861 sq mi)	
HUC 12	Pass Run-Hawksbill Creek	
HUC 10	Hawksbill Creek-South Fork She	
HUC 8	South Fork Shenandoah	
HUC 6	Potomac	
HUC 4	Potomac	

Landcover

NLCD (2011)	
% Impervious Surface in Upstream Drainage Area	0.57
% Natural Cover in Upstream Drainage Area	84.69
% Forested in Upstream Drainage Area	82.38
% Agriculture in Upstream Drainage Area	11.14
% Natural Cover in ARA of Upstream Network	93.66
% Natural Cover in ARA of Downstream Network	40.93
% Forest Cover in ARA of Upstream Network	48.59
% Forest Cover in ARA of Downstream Network	33.95
% Agricultral Cover in ARA of Upstream Network	1.41
% Agricultral Cover in ARA of Downstream Network	43.16
% Impervious Surf in ARA of Upstream Network	1.27
% Impervious Surf in ARA of Downstream Network	2.74

Chesapeake Conservancy (2016)	
% Tree Cover in ARA of Upstream Network	46.82
% Tree Cover in ARA of Downstream Network	44.26
% Herbaceaous Cover in ARA of Upstream Network	7.35
% Herbaceaous Cover in ARA of Downstream Network	44.57
% Barren Cover in ARA of Upstream Network	0
% Barren Cover in ARA of Downstream Network	0
% Road Impervious in ARA of Upstream Network	0
% Road Impervious in ARA of Downstream Network	2.35
% Other Impervious in ARA of Upstream Network	0.44
% Other Impervious in ARA of Downstream Network	3

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)	5.14	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	231.47	# Downsteam Natural Barriers	2
Absolute Gain (mi)	5.14	# Downstream Hydropower Dams	2
# Size Classes in Total Network	4	# Downstream Dams with Passage	3
# Upstream Network Size Classes	1	# 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	18.2
% Conserved Land in 100m Buffer of Downstream Network	22.72
Density of Crossings in Upstream Network Watershed (#/m2)	0.46
Density of Crossings in Downstream Network Watershed (#/m2)	1.28
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	None Documented	Downstream Shortnose Sturgeon	None Documented
Downstream Hickory Shad	None Documented	Downstream American Eel	Current

Presence of 1 or More Downstream Anadromous Species	None Docume
# 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)	35
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	0
# Rare Crayfish (HUC8)	0

Stream Health

Chesapeake Bay Program Stream Health	FAIR
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	Very High
PA IBI Stream Health	N/A

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