

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_1107		Lake Arrowhead		Dry Run Dam #101	
Bay-wide Diadromous Tier	13				
Bay-wide Resident Tier	10				
Bay-wide Brook Trout Tier	15				
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)			Chesapeake Conservancy (2016)		
% Impervious Surface in Upstream Drainage Area	0.57		% Tree Cover in ARA of Upstream Network	46.82	
% Natural Cover in Upstream Drainage Area	84.69		% Tree Cover in ARA of Downstream Network	44.26	
% Forested in Upstream Drainage Area	82.38		% Herbaceous Cover in ARA of Upstream Network	7.35	
% Agriculture in Upstream Drainage Area	11.14		% Herbaceous Cover in ARA of Downstream Network	44.57	
% Natural Cover in ARA of Upstream Network	93.66		% Barren Cover in ARA of Upstream Network	0	
% Natural Cover in ARA of Downstream Network	40.93		% Barren Cover in ARA of Downstream Network	0	
% Forest Cover in ARA of Upstream Network	48.59		% Road Impervious in ARA of Upstream Network	0	
% Forest Cover in ARA of Downstream Network	33.95		% Road Impervious in ARA of Downstream Network	2.35	
% Agricultural Cover in ARA of Upstream Network	1.41		% Other Impervious in ARA of Upstream Network	0.44	
% Agricultural Cover in ARA of Downstream Network	43.16		% Other Impervious in ARA of Downstream Network	3	
% Impervious Surf in ARA of Upstream Network	1.27				
% Impervious Surf in ARA of Downstream Network	2.74				

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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Lake Arrowhead

Dry Run Dam #101

Network, System Type and Condition

Functional Upstream Network (mi)	5.14	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	231.47	# Downstream 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 Documented		
# 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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