Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_1097 LAKE FREDRICK DAM

Diadromous Tier 13

Brook Trout Tier N/A

Resident Tier 6

NID ID VA06913 State ID 1097

River Name Crooked Run

Dam Height (ft) 74

Dam Type Gravity
Latitude 39.0424
Longitude -78.1583

Passage Facilities None Documented

Passage Year N/A

Size Class 1a: Headwater (0 - 3.861 sq mi)

HUC 12 Crooked Run

HUC 10 Crooked Run-Shenandoah River

HUC 8 Shenandoah
HUC 6 Potomac
HUC 4 Potomac







	Land	cover	
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	1.71	% Tree Cover in ARA of Upstream Network	63.86
% Natural Cover in Upstream Drainage Area	65.05	% Tree Cover in ARA of Downstream Network	59.79
% Forested in Upstream Drainage Area	56.12	% Herbaceaous Cover in ARA of Upstream Network	13.57
% Agriculture in Upstream Drainage Area	27.21	% Herbaceaous Cover in ARA of Downstream Network	28.7
% Natural Cover in ARA of Upstream Network	82.49	% Barren Cover in ARA of Upstream Network	0.95
% Natural Cover in ARA of Downstream Network	61.79	% Barren Cover in ARA of Downstream Network	0.68
% Forest Cover in ARA of Upstream Network	62.65	% Road Impervious in ARA of Upstream Network	0.36
% Forest Cover in ARA of Downstream Network	53.27	% Road Impervious in ARA of Downstream Network	1.87
% Agricultral Cover in ARA of Upstream Network	14.71	% Other Impervious in ARA of Upstream Network	2.31
% Agricultral Cover in ARA of Downstream Network	28.34	% Other Impervious in ARA of Downstream Network	2.27
% Impervious Surf in ARA of Upstream Network	0.39		
% Impervious Surf in ARA of Downstream Network	1.76		



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CIFFF Offique ID. VA_1037	LAKE I KEDKICK					
	Network, Sy	ystem	Туре	and Condition		
Functional Upstream Network	(mi) 9.86			Upstream Size Class Gain (‡	‡)	0
Total Functional Network (mi)	842.38			# Downsteam Natural Barri	ers	1
Absolute Gain (mi)	9.86			# Downstream Hydropowe	r Dams	2
# Size Classes in Total Networ	k 5			# Downstream Dams with I	Passage	3
# Upstream Network Size Clas	sses 1			# of Downstream Barriers		4
NFHAP Cumulative Disturband	ce Index			Moderate		
Dam is on Conserved Land				No		
% Conserved Land in 100m Buffer of Upstream Network				14.88		
% Conserved Land in 100m Bu	iffer of Downstream Ne	twork	(30.89		
Density of Crossings in Upstre	am Network Watershed	d (#/m	12)	0		
Density of Crossings in Downs	tream Network Waters	hed (#	‡/m2)	1.29		
Density of off-channel dams in	n Upstream Network Wa	atersh	ned (#	/m2) 0		
Density of off-channel dams in	n Downstream Network	Wate	ershed	l (#/m2) 0		
		Diadro				
Downstream Alewife	None Documented		Dow	Downstream Striped Bass None Do		umented
Downstream Blueback	None Documented		Dow	nstream Atlantic Sturgeon	None Doc	umented
Downstream American Shad	None Documented		Dow	rnstream Shortnose Sturgeon	None Doc	umented
Downstream Hickory Shad	None Documented		Dow	nstream American Eel	Current	
Presence of 1 or More Downs	stream Anadromous Spe	ecies	Non	e Docume		
# Diadromous Species Downs	tream (incl eel)		1			
Reside	ent Fish			Strea	m Health	
Barrier is in EBTJV BKT Catchment No.		No		Chesapeake Bay Program Stream Health POOR		
Barrier is in Modeled BKT Catchment (DeWeber)		No		MD MBSS Benthic IBI Stream Health N/A		N/A
Barrier Blocks an EBTJV Catchment Ye		Yes		MD MBSS Fish IBI Stream Health		N/A
Barrier Blocks a Modeled BKT Catchment (DeWeber) Y		Yes		MD MBSS Combined IBI Stream Health		N/A
Native Fish Species Richness (HUC8) 3		36		VA INSTAR mIBI Stream Health		High
# Rare Fish (HUC8)		0		PA IBI Stream Health		N/A
		0				
# Rare Crayfish (HUC8)		0				
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