Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: PA_PA00078 LAKE SOPHIA DAM

Bay-wide Diadromous Tier 9
Bay-wide Resident Tier 4

Bay-wide Brook Trout Tier N/A

 NID ID
 PA00078

 State ID
 PA00078

River Name

Dam Height (ft) 30

Dam Type Earth

Latitude 41.9721

Longitude -75.9771

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 Middle Chocohut Creek

HUC 10 Choconut Creek-Susquehanna Ri

HUC 8 Owego-Wappasening
HUC 6 Upper Susquehanna

HUC 4 Susquehanna







	Land	cover			
NLCD (2011)		Chesapeake Conservancy (2016)			
% Impervious Surface in Upstream Drainage Area	0.41	% Tree Cover in ARA of Upstream Network	50.95		
% Natural Cover in Upstream Drainage Area	55.99	% Tree Cover in ARA of Downstream Network	54.16		
% Forested in Upstream Drainage Area	51.71	% Herbaceaous Cover in ARA of Upstream Network	16.37		
% Agriculture in Upstream Drainage Area	37.87	% Herbaceaous Cover in ARA of Downstream Network	33.75		
% Natural Cover in ARA of Upstream Network	79.75	% Barren Cover in ARA of Upstream Network	0		
% Natural Cover in ARA of Downstream Network	57.7	% Barren Cover in ARA of Downstream Network	0.51		
% Forest Cover in ARA of Upstream Network	39.87	% Road Impervious in ARA of Upstream Network	1.93		
% Forest Cover in ARA of Downstream Network	44.4	% Road Impervious in ARA of Downstream Network	2		
% Agricultral Cover in ARA of Upstream Network	10.76	% Other Impervious in ARA of Upstream Network	1.94		
% Agricultral Cover in ARA of Downstream Network	27.91	% Other Impervious in ARA of Downstream Network	3.88		
% Impervious Surf in ARA of Upstream Network	0.9				
% Impervious Surf in ARA of Downstream Network	3.93				



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CFPPP Unique ID: PA_PAUUU	78 LAKE SUPHIA DAIVI	· · · · · · · · · · · · · · · · · · ·			
	Network, Syste	em Type	and Condition		
Functional Upstream Network	(mi) 2.51		Upstream Size Class Gain (#)		0
Total Functional Network (mi)	7075.06		# Downsteam Natural Barriers		0
Absolute Gain (mi)	2.51		# Downstream Hydropower Dams		4
# Size Classes in Total Network	7		# Downstream Dams with Passage		5
# Upstream Network Size Clas	ses 1		# of Downstream Barriers		6
NFHAP Cumulative Disturbanc	e Index		High		
Dam is on Conserved Land			No		
% Conserved Land in 100m Buffer of Upstream Network			0		
% Conserved Land in 100m Buffer of Downstream Network		ork	6.98		
Density of Crossings in Upstrea	am Network Watershed (#	/m2)	0.93		
Density of Crossings in Downs	tream Network Watershed	d (#/m2)	0.98		
Density of off-channel dams in	ı Upstream Network Wate	rshed (#	t/m2) 0		
Density of off-channel dams ir	Downstream Network W	atershed	d (#/m2) 0.01		
		dromous	s Fish		
Downstream Alewife	Historical	Dow	Downstream Striped Bass None Documente		mented
Downstream Blueback	Historical	Dow	vnstream Atlantic Sturgeon	None Docu	mented
Downstream American Shad	None Documented	Dow	vnstream Shortnose Sturgeon	None Docu	mented
Downstream Hickory Shad	None Documented	Dow	vnstream American Eel	Current	
Presence of 1 or More Downs	tream Anadromous Specie	es Hist	orical		
# Diadromous Species Downs	tream (incl eel)	1			
·					
Resident Fish			Stream Health		
Barrier is in EBTJV BKT Catchment No		O	Chesapeake Bay Program Stream Health FAIR		
Barrier is in Modeled BKT Catchment (DeWeber) No		O	MD MBSS Benthic IBI Stream Health		N/A
Barrier Blocks an EBTJV Catchment Yes		3S	MD MBSS Fish IBI Stream Health		N/A
Barrier Blocks a Modeled BKT	Catchment (DeWeber) Ye)S	MD MBSS Combined IBI Strea	m Health	N/A
Native Fish Species Richness (HUC8) 33		3	VA INSTAR mIBI Stream Health		N/A
# Rare Fish (HUC8)			PA IBI Stream Health		Good
# Rare Mussel (HUC8)	3				
# Rare Crayfish (HUC8)	0				

