Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID:	VA_440 ARNOLDS DAM
Diadromous Tier	4
Brook Trout Tier	N/A
Resident Tier	5
NID ID	VA13519
State ID	440
River Name	
Dam Height (ft)	25
Dam Type	Earth
Latitude	37.2325
Longitude	-78.1182
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1a: Headwater (0 - 3.861 sq mi)
HUC 12	West Creek
HUC 10	Deep Creek
HUC 8	Appomattox
HUC 6	James
HUC 4	Lower Chesapeake



	Land	cover	
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.64	% Tree Cover in ARA of Upstream Network	49.76
% Natural Cover in Upstream Drainage Area	63.47	% Tree Cover in ARA of Downstream Network	86.58
% Forested in Upstream Drainage Area		% Herbaceaous Cover in ARA of Upstream Network	
% Agriculture in Upstream Drainage Area 29		% Herbaceaous Cover in ARA of Downstream Network	
% Natural Cover in ARA of Upstream Network	52.5	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	88.39	% Barren Cover in ARA of Downstream Network	0.08
% Forest Cover in ARA of Upstream Network	30.62	% Road Impervious in ARA of Upstream Network	1.65
% Forest Cover in ARA of Downstream Network	61	% Road Impervious in ARA of Downstream Network	0.36
% Agricultral Cover in ARA of Upstream Network	41.88	% Other Impervious in ARA of Upstream Network	0.03
% Agricultral Cover in ARA of Downstream Network	9.87	% Other Impervious in ARA of Downstream Network	0.38
% Impervious Surf in ARA of Upstream Network	0.75		
% Impervious Surf in ARA of Downstream Network	0.27		



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	Network, System	т Туре	and Condition	
Functional Upstream Network	(mi) 0.48		Upstream Size Class Gain (#)	0
Total Functional Network (mi) 2957.15			# Downsteam Natural Barriers	
Absolute Gain (mi)	0.48		# Downstream Hydropower Dar	ms 3
# Size Classes in Total Networ	k 5		# Downstream Dams with Passa	ige 3
# Upstream Network Size Clas	ses 0		# of Downstream Barriers	3
NFHAP Cumulative Disturband	ce Index		Not Scored / Unavailab	le at this scale
Dam is on Conserved Land			No	
% Conserved Land in 100m Buffer of Upstream Network			0	
% Conserved Land in 100m Bu	ffer of Downstream Netwo	rk	5.91	
Density of Crossings in Upstre	am Network Watershed (#/	m2)	0	
Density of Crossings in Downs	tream Network Watershed	(#/m2)	0.5	
Density of off-channel dams in	n Upstream Network Water	shed (#	/m2) 0	
Density of off-channel dams in	n Downstream Network Wa	tershed	I (#/m2) 0	
D Al		romous		
Downstream Alewife	Current		'	ne Documented
Downstream Blueback	Historical	Dow	rnstream Atlantic Sturgeon No	ne Documented
Downstream American Shad	None Documented	Dow	nstream Shortnose Sturgeon No	ne Documented
Downstream Hickory Shad	None Documented	Dow	rnstream American Eel Cur	rent
Presence of 1 or More Downs	tream Anadromous Species	s Curr	ent	
# Diadromous Species Downs	tream (incl eel)	2		
Reside	nt Fish		Stream He	ealth
Barrier is in EBTJV BKT Catchment No			Chesapeake Bay Program Stream	Health POOR
Barrier is in Modeled BKT Catchment (DeWeber) No			MD MBSS Benthic IBI Stream Hea	
Barrier Blocks an EBTJV Catchment No			MD MBSS Fish IBI Stream Health N/A	
Barrier Blocks a Modeled BKT Catchment (DeWeber) No			MD MBSS Combined IBI Stream H	•
Native Fish Species Richness (HUC8) 58			VA INSTAR mIBI Stream Health Very High	
# Rare Fish (HUC8)			PA IBI Stream Health	N/A
# Rare Mussel (HUC8)	3			14//1
# Rare Crayfish (HUC8)	0			
" Marc Craynon (11000)	O			

