Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_579 WESTS DAM

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

Bay-wide Brook Trout Tier N/A

NID ID VA08520

State ID 579

River Name Matadequin Creek

Dam Height (ft) 23

Dam Type Gravity
Latitude 37.6323

Passage Facilities None Documented

Passage Year N/A

Longitude

Size Class 1b: Creek (3.861 - 38.61 sq mi)

-77.2239

HUC 12 Montague Creek-Pamunkey Riv

HUC 10 Middle Pamunkey River

HUC 8 Pamunkey

HUC 6 Lower Chesapeake

HUC 4 Lower Chesapeake







Landcover				
NLCD (2011)		Chesapeake Conservancy (2016)		
% Impervious Surface in Upstream Drainage Area	1.1	% Tree Cover in ARA of Upstream Network	73.58	
% Natural Cover in Upstream Drainage Area	61.45	% Tree Cover in ARA of Downstream Network	81	
% Forested in Upstream Drainage Area	49.48	% Herbaceaous Cover in ARA of Upstream Network	14.77	
% Agriculture in Upstream Drainage Area	30.5	% Herbaceaous Cover in ARA of Downstream Network	15.37	
% Natural Cover in ARA of Upstream Network	84.32	% Barren Cover in ARA of Upstream Network	0	
% Natural Cover in ARA of Downstream Network	85.29	% Barren Cover in ARA of Downstream Network	0	
% Forest Cover in ARA of Upstream Network	54.73	% Road Impervious in ARA of Upstream Network	1.27	
% Forest Cover in ARA of Downstream Network	54.79	% Road Impervious in ARA of Downstream Network	0.57	
% Agricultral Cover in ARA of Upstream Network	10.65	% Other Impervious in ARA of Upstream Network	2.24	
% Agricultral Cover in ARA of Downstream Network	13.29	% Other Impervious in ARA of Downstream Network	0.86	
% Impervious Surf in ARA of Upstream Network	0.67			
% Impervious Surf in ARA of Downstream Network	0.06			
				П



Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_579 WESTS DAM

Downstream Blueback Historical Downstream Atlantic Sturgeon None Downstream American Shad None Documented Downstream Shortnose Sturgeon None Downstream Hickory Shad None Documented Downstream American Eel None Downstrea	
Fotal Functional Network (mi) 28.1 # Downsteam Natural Barriers Absolute Gain (mi) 11.05 # Downstream Hydropower Dams # Size Classes in Total Network 2 # Downstream Barriers # Upstream Network Size Classes 2 # of Downstream Barriers NFHAP Cumulative Disturbance Index Dam is on Conserved Land No # Conserved Land in 100m Buffer of Upstream Network 0 # Conserved Land in 100m Buffer of Downstream Network 0 # Conserved Land in 100m Buffer of Downstream Network 0 # Conserved Land in 100m Buffer of Downstream Network 0 # Density of Crossings in Upstream Network Watershed (#/m2) 1.11 # Density of Crossings in Downstream Network Watershed (#/m2) 0 # 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 Historical Downstream Striped Bass None Downstream Blueback Historical Downstream Atlantic Sturgeon None D # Downstream American Shad None Documented Downstream American Eel None D # Downstream Hickory Shad None Documented Downstream American Eel None D # Diadromous Species Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0 # Resident Fish # Diadromous Species Downstream (incl eel) 0 # Barrier is in EBTJV BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health # Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health # MD MBSS Combined IBI Stream Health # No MBSS Combined IBI Stream Health # No MD MBSS Combined IBI Stream Health # No MASS Combined IBI Stream Health # No MASS Combined IBI Stream Health	
Absolute Gain (mi) # Downstream Hydropower Dams # Size Classes in Total Network # Upstream Network Size Classes # Upstream Network Size Classes # Upstream Network Size Classes # High Dam is on Conserved Land # Conserved Land in 100m Buffer of Upstream Network # Conserved Land in 100m Buffer of Downstream Network # Conserved Land in 100m Buffer of Downstream Network # Conserved Land in 100m Buffer of Downstream Network # Conserved Land in 100m Buffer of Downstream Network # Conserved Land in 100m Buffer of Downstream Network # Conserved Land in 100m Buffer of Downstream Network # Conserved Land in 100m Buffer of Downstream Network # Conserved Land in 100m Buffer of Downstream Network # Downstream Network Watershed (#/m2) # Dosity of Crossings in Upstream Network Watershed (#/m2) # Downstream Network Watershed (#/m2) # Downstream Alewife # Historical # Downstream Allantic Sturgeon # None Downstream Allantic Sturgeon # Downstream American Shad # None Documented # Downstream American Eel # Downstream American Eel # None Downstream Anadromous Species # Historical # Downstream American Eel # Downstream American Eel # Downstream American Eel # None Downstream Anadromous Species # Historical # Downstream American Eel # Downstream American Eel # Downstream American Eel # None Downstream Anadromous Species # Historical # Downstream American Eel # Downstream American Eel # Downstream American Eel # None Downstream American Eel # Downstream American Eel # Downstream American Eel # None Downstream American Eel # Downstream American Eel # None Downstream American Eel #	0
# Size Classes in Total Network 2 # Downstream Dams with Passage # Upstream Network Size Classes 2 # of Downstream Barriers NFHAP Cumulative Disturbance 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 0 Censity of Crossings in Upstream Network Watershed (#/m2) 1.11 Density of Crossings in Downstream Network Watershed (#/m2) 0.38 Density of off-channel dams in Upstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Downstream Alewife Historical Downstream Striped Bass None D Downstream American Shad None Documented Downstream Atlantic Sturgeon None D Downstream Hickory Shad None Documented Downstream American Eel None D Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0 Resident Fish Stream Health Barrier is in EBTJV BKT Catchment (DeWeber) No MD MBSS Fish IBI Stream Health Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health Not MD MBSS Combined IBI Stream Health Not MD MBSS Combined IBI Stream Health Not MD MBSS Combined IBI Stream Health	0
# Upstream Network Size Classes 2 # of Downstream Barriers NFHAP Cumulative Disturbance Index Dam is on Conserved Land No % Conserved Land in 100m Buffer of Upstream Network Conserved Land in 100m Buffer of Downstream Network Conserved Land in 100m Buffer of Downstream Network Density of Crossings in Upstream Network Watershed (#/m2) Density of Crossings in Downstream Network Watershed (#/m2) Density of off-channel dams in Upstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) Downstream Alewife Historical Downstream Allantic Sturgeon None D Downstream American Shad None Documented Downstream American Sturgeon None D Downstream Hickory Shad None Documented Downstream American Eel None D Presence of 1 or More Downstream Anadromous Species # Diadromous Species Downstream (incl eel) Resident Fish Stream Health Barrier is in EBTJV BKT Catchment No Barrier Blocks an EBTJV Catchment No MD MBSS Benthic IBI Stream Health Marrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health MD MBSS Combined IBI Stream Health Native Fish Species Richness (HUC8) 56 VA INSTAR mIBI Stream Health	0
NFHAP Cumulative Disturbance Index Dam is on Conserved Land No Conserved Land in 100m Buffer of Upstream Network Conserved Land in 100m Buffer of Downstream Health Conserved Land in 100m Buffer of Downstream Noth In 111 Conserved Land in 100m Buffer of Downstream Noth In 111 Conserved Land in 100m Buffer of Downstream Noth In 111 Conserved Land in 100m Buffer of Downstream Noth In 111 Cons	0
Dam is on Conserved Land Mo Conserved Land in 100m Buffer of Upstream Network Conserved Land in 100m Buffer of Downstream Network Conserved Land in 100m Buffer of Upstream Health Conserved Land in 100m Buffer of Upstream Network Conserved Land in 100m Buffer of Upstream Health Conserved Land in 100m Buffer of Downstream Network Conserved Land in 100m Buffer of Upstream Health Conserved Land in 100m Buffer of Downstream Note In 111 Conserved Land in 100m Buffer of Downstream Note In 111 Conserved Land in 100m Buffer of Downstream Note In 111 Conserved Land in 100m Buffer of Downstream Note In 111 Conserved Land in 100m Buffer of Downstream	1
% Conserved Land in 100m Buffer of Upstream Network 0 % Conserved Land in 100m Buffer of Downstream Network 0 Density of Crossings in Upstream Network Watershed (#/m2) 1.11 Density of Crossings in Downstream Network Watershed (#/m2) 0.38 Density of off-channel dams in Upstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Downstream Alewife Historical Downstream Striped Bass None D Downstream Blueback Historical Downstream Atlantic Sturgeon None D Downstream American Shad None Documented Downstream Shortnose Sturgeon None D Downstream Hickory Shad None Documented Downstream American Eel None D Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0 Resident Fish Stream Health Barrier is in EBTJV BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health Barrier Blocks an EBTJV Catchment No MD MBSS Fish IBI Stream Health Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health No MD MBSS Combined IBI Stream Health	
26. Conserved Land in 100m Buffer of Downstream Network 0 Density of Crossings in Upstream Network Watershed (#/m2) 1.11 Density of Crossings in Downstream Network Watershed (#/m2) 0.38 Density of off-channel dams in Upstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Downstream Alewife Historical Downstream Striped Bass None D Downstream Blueback Historical Downstream Atlantic Sturgeon None D Downstream American Shad None Documented Downstream American Eel None D Downstream Hickory Shad None Documented Downstream American Eel None D Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0 Resident Fish Stream Health Barrier is in EBTJV BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health Barrier Blocks an EBTJV Catchment No MD MBSS Fish IBI Stream Health Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health Native Fish Species Richness (HUC8) 56 VA INSTAR mIBI Stream Health	
Density of Crossings in Upstream Network Watershed (#/m2) 0.38 Density of Crossings in Downstream Network Watershed (#/m2) 0.38 Density of off-channel dams in Upstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Diadromous Fish Downstream Alewife Historical Downstream Striped Bass None D Downstream Blueback Historical Downstream Atlantic Sturgeon None D Downstream American Shad None Documented Downstream Shortnose Sturgeon None D Downstream Hickory Shad None Documented Downstream American Eel None D Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0 Resident Fish Stream Health Barrier is in EBTJV BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health Barrier Blocks an EBTJV Catchment No MD MBSS Combined IBI Stream Health Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health No MBSS Combined IBI Stream Health No MD MBSS Combined IBI Stream Health No MD MBSS Combined IBI Stream Health	
Density of Crossings in Downstream Network Watershed (#/m2) 0 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 Historical Downstream Striped Bass None D Downstream Blueback Historical Downstream Atlantic Sturgeon None D Downstream American Shad None Documented Downstream Shortnose Sturgeon None D Downstream Hickory Shad None Documented Downstream American Eel None D Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0 Resident Fish Stream Health Barrier is in EBTJV BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health Barrier Blocks an EBTJV Catchment No MD MBSS Combined IBI Stream Health	
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 Striped Bass None D Downstream Blueback Historical Downstream Atlantic Sturgeon None D Downstream American Shad None Documented Downstream Shortnose Sturgeon None D Downstream Hickory Shad None Documented Downstream American Eel None D Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0 Resident Fish Stream Health Barrier is in EBTJV BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health Barrier Blocks an EBTJV Catchment No MD MBSS Fish IBI Stream Health Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health Native Fish Species Richness (HUC8) 56 VA INSTAR mIBI Stream Health	
Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Diadromous Fish Downstream Alewife Historical Downstream Striped Bass None D Downstream Blueback Historical Downstream Atlantic Sturgeon None D Downstream American Shad None Documented Downstream Shortnose Sturgeon None D Downstream Hickory Shad None Documented Downstream American Eel None D Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0 Resident Fish Stream Health Barrier is in EBTJV BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health Barrier Blocks an EBTJV Catchment No MD MBSS Fish IBI Stream Health Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health Native Fish Species Richness (HUC8) 56 VA INSTAR mIBI Stream Health	
Diadromous Fish Downstream Alewife Historical Downstream Striped Bass None D Downstream Blueback Historical Downstream Atlantic Sturgeon None D Downstream American Shad None Documented Downstream Shortnose Sturgeon None D Downstream Hickory Shad None Documented Downstream American Eel None D Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0 Resident Fish Stream Health Barrier is in EBTJV BKT Catchment No MD MBSS Benthic IBI Stream Health Barrier Blocks an EBTJV Catchment No MD MBSS Fish IBI Stream Health Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health Native Fish Species Richness (HUC8) 56 VA INSTAR mIBI Stream Health	
Downstream Alewife Historical Downstream Striped Bass None D Downstream Blueback Historical Downstream Atlantic Sturgeon None D Downstream American Shad None Documented Downstream American Eel None D Downstream Hickory Shad None Documented Downstream American Eel None D Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) Resident Fish Stream Health Barrier is in EBTJV BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health Barrier Blocks an EBTJV Catchment (DeWeber) No MD MBSS Combined IBI Stream Health Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health Native Fish Species Richness (HUC8) Downstream Striped Bass None D Downstream Atlantic Sturgeon None D Downstream Atlantic Sturge	
Downstream Blueback Historical Downstream Atlantic Sturgeon None D Downstream American Shad None Documented Downstream Shortnose Sturgeon None D Downstream Hickory Shad None Documented Downstream American Eel None D Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0 Resident Fish Stream Health Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health Barrier Blocks an EBTJV Catchment No MD MBSS Benthic IBI Stream Health Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Fish IBI Stream Health Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health Native Fish Species Richness (HUC8) 56 VA INSTAR mIBI Stream Health	
Downstream American Shad None Documented Downstream Shortnose Sturgeon None Downstream Hickory Shad None Documented Downstream American Eel None Downstream Ameri	Documented
Downstream Hickory Shad None Documented Downstream American Eel None D Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0 Resident Fish Stream Health Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health Barrier is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health Barrier Blocks an EBTJV Catchment No MD MBSS Fish IBI Stream Health Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health Native Fish Species Richness (HUC8) 56 VA INSTAR mIBI Stream Health	Documented
Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) Resident Fish Barrier is in EBTJV BKT Catchment Barrier is in Modeled BKT Catchment (DeWeber) Barrier Blocks an EBTJV Catchment No MD MBSS Benthic IBI Stream Health MD MBSS Fish IBI Stream Health MD MBSS Combined IBI Stream Health	Documented
# Diadromous Species Downstream (incl eel) Resident Fish Barrier is in EBTJV BKT Catchment Barrier is in Modeled BKT Catchment (DeWeber) Barrier Blocks an EBTJV Catchment Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health MD MBSS Fish IBI Stream Health MD MBSS Combined IBI Stream Health MD MBSS Combined IBI Stream Health MD MBSS Combined IBI Stream Health No No No No No No No No No N	Documented
Resident Fish Barrier is in EBTJV BKT Catchment Barrier is in Modeled BKT Catchment (DeWeber) Barrier Blocks an EBTJV Catchment Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health MD MBSS Fish IBI Stream Health MD MBSS Combined IBI Stream Health MD MBSS Combined IBI Stream Health No No No No No No No No No N	
Barrier is in EBTJV BKT Catchment Barrier is in Modeled BKT Catchment (DeWeber) No MD MBSS Benthic IBI Stream Health Barrier Blocks an EBTJV Catchment No MD MBSS Fish IBI Stream Health MD MBSS Combined IBI Stream Health MD MBSS Combined IBI Stream Health Native Fish Species Richness (HUC8) No VA INSTAR mIBI Stream Health	
Barrier is in Modeled BKT Catchment (DeWeber) Barrier Blocks an EBTJV Catchment No MD MBSS Benthic IBI Stream Health MD MBSS Fish IBI Stream Health MD MBSS Combined IBI Stream Health MD MBSS Combined IBI Stream Health No Native Fish Species Richness (HUC8) Solution And MD MBSS Combined IBI Stream Health	th
Barrier Blocks an EBTJV Catchment No MD MBSS Fish IBI Stream Health MD MBSS Combined IBI Stream Healt MD MBSS Combined IBI Stream Healt Native Fish Species Richness (HUC8) MD MBSS Combined IBI Stream Healt	ealth FAIR
Barrier Blocks a Modeled BKT Catchment (DeWeber) No Native Fish Species Richness (HUC8) MD MBSS Combined IBI Stream Healt VA INSTAR mIBI Stream Health	
Barrier Blocks a Modeled BKT Catchment (DeWeber) No Native Fish Species Richness (HUC8) MD MBSS Combined IBI Stream Healt VA INSTAR mIBI Stream Health	N/A
Native Fish Species Richness (HUC8) 56 VA INSTAR mIBI Stream Health	•
	Very High
# Rare Fish (HUC8) 1 PA IBI Stream Health	N/A
# Rare Mussel (HUC8) 3	,
# Rare Crayfish (HUC8) 0	

