

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_VA06146**      **WILLOW POND FARM DAM**

Bay-wide Diadromous Tier	9
Bay-wide Resident Tier	12
Bay-wide Brook Trout Tier	N/A
NID ID	VA06146
State ID	VA06146
River Name	West Branch Thumb Run
Dam Height (ft)	30
Dam Type	Earth
Latitude	38.852
Longitude	-78.0003
Passage Facilities	None Documented
Passage Year	N/A
Size Class	1b: Creek (3.861 - 38.61 sq mi)
HUC 12	Thumb Run
HUC 10	Thumb Run-Rappahannock River
HUC 8	Rapidan-Upper Rappahannock
HUC 6	Lower Chesapeake
HUC 4	Lower Chesapeake



### Landcover

NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.09	% Tree Cover in ARA of Upstream Network	61.31
% Natural Cover in Upstream Drainage Area	70.47	% Tree Cover in ARA of Downstream Network	60.89
% Forested in Upstream Drainage Area	69.86	% Herbaceous Cover in ARA of Upstream Network	36.61
% Agriculture in Upstream Drainage Area	26.82	% Herbaceous Cover in ARA of Downstream Network	37.37
% Natural Cover in ARA of Upstream Network	44.07	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	43.57	% Barren Cover in ARA of Downstream Network	0
% Forest Cover in ARA of Upstream Network	42.99	% Road Impervious in ARA of Upstream Network	0.48
% Forest Cover in ARA of Downstream Network	42.77	% Road Impervious in ARA of Downstream Network	0.51
% Agricultural Cover in ARA of Upstream Network	53.64	% Other Impervious in ARA of Upstream Network	1.2
% Agricultural Cover in ARA of Downstream Network	52.5	% Other Impervious in ARA of Downstream Network	0.42
% Impervious Surf in ARA of Upstream Network	0.06		
% Impervious Surf in ARA of Downstream Network	0.14		

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric\\_Glossary.pdf](http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf)

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## Network, System Type and Condition

Functional Upstream Network (mi)	16.96	Upstream Size Class Gain (#)	0
Total Functional Network (mi)	88.28	# Downstream Natural Barriers	0
Absolute Gain (mi)	16.96	# Downstream Hydropower Dams	0
# Size Classes in Total Network	2	# Downstream Dams with Passage	0
# Upstream Network Size Classes	2	# of Downstream Barriers	1
NFHAP Cumulative Disturbance Index	Moderate		
Dam is on Conserved Land	No		
% Conserved Land in 100m Buffer of Upstream Network	15.9		
% Conserved Land in 100m Buffer of Downstream Network	40.95		
Density of Crossings in Upstream Network Watershed (#/m2)	1.64		
Density of Crossings in Downstream Network Watershed (#/m2)	1.11		
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 Documented
Downstream Blueback	Historical	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	Historical		
# Diadromous Species Downstream (incl eel)	1		

## Resident Fish

Barrier is in EBTJV BKT Catchment	No
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)	38
# Rare Fish (HUC8)	0
# Rare Mussel (HUC8)	4
# 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	High
PA IBI Stream Health	N/A

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