



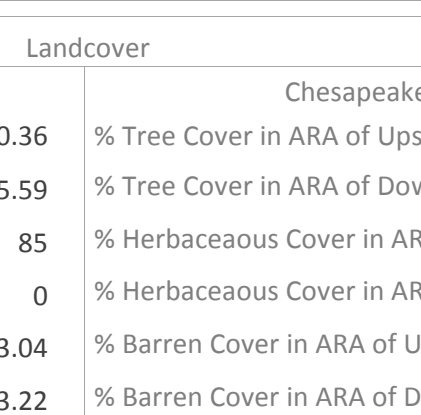
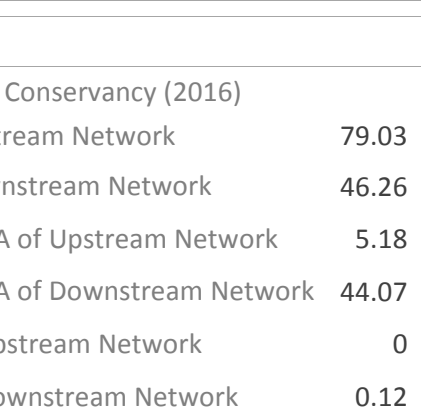
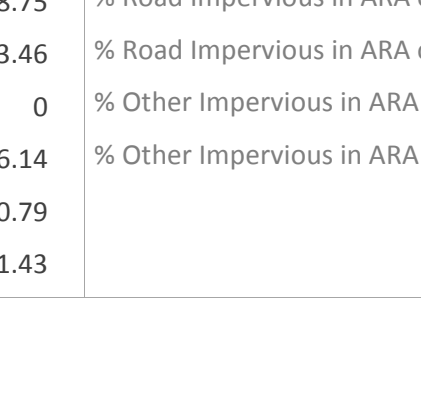
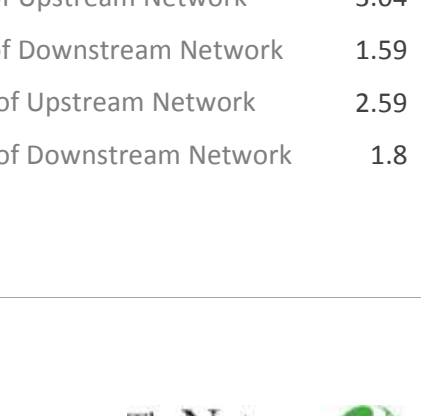
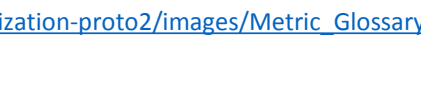



Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_VA18701		Lake of the Clouds Dam	CLOUD DAM
Diadromous Tier	16		
Brook Trout Tier	N/A		
Resident Tier	13		
NID ID	VA18701		
State ID	18701		
River Name	Venus Branch		
Dam Height (ft)	40		
Dam Type	Earth		
Latitude	38.9899		
Longitude	-78.0417		
Passage Facilities	None Documented		
Passage Year	N/A		
Size Class	1a: Headwater (0 - 3.861 sq mi)		
HUC 12	Borden Marsh Run-Shenandoah		
HUC 10	Crooked Run-Shenandoah River		
HUC 8	Shenandoah		
HUC 6	Potomac		
HUC 4	Potomac		

Landcover			
NLCD (2011)		Chesapeake Conservancy (2016)	
% Impervious Surface in Upstream Drainage Area	0.36	% Tree Cover in ARA of Upstream Network	79.03
% Natural Cover in Upstream Drainage Area	85.59	% Tree Cover in ARA of Downstream Network	46.26
% Forested in Upstream Drainage Area	85	% Herbaceous Cover in ARA of Upstream Network	5.18
% Agriculture in Upstream Drainage Area	0	% Herbaceous Cover in ARA of Downstream Network	44.07
% Natural Cover in ARA of Upstream Network	83.04	% Barren Cover in ARA of Upstream Network	0
% Natural Cover in ARA of Downstream Network	43.22	% Barren Cover in ARA of Downstream Network	0.12
% Forest Cover in ARA of Upstream Network	68.75	% Road Impervious in ARA of Upstream Network	3.04
% Forest Cover in ARA of Downstream Network	33.46	% Road Impervious in ARA of Downstream Network	1.59
% Agricultural Cover in ARA of Upstream Network	0	% Other Impervious in ARA of Upstream Network	2.59
% Agricultural Cover in ARA of Downstream Network	46.14	% Other Impervious in ARA of Downstream Network	1.8
% Impervious Surf in ARA of Upstream Network	0.79		
% Impervious Surf in ARA of Downstream Network	1.43		

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_VA18701		Lake of the Clouds Dam		CLOUD DAM	
Network, System Type and Condition					
Functional Upstream Network (mi)	4.86	Upstream Size Class Gain (#)	0		
Total Functional Network (mi)	447.7	# Downstream Natural Barriers	1		
Absolute Gain (mi)	4.86	# Downstream Hydropower Dams	1		
# Size Classes in Total Network	3	# Downstream Dams with Passage	2		
# Upstream Network Size Classes	1	# of Downstream Barriers	3		
NFHAP Cumulative Disturbance Index		Very High			
Dam is on Conserved Land		No			
% Conserved Land in 100m Buffer of Upstream Network		0			
% Conserved Land in 100m Buffer of Downstream Network		22.06			
Density of Crossings in Upstream Network Watershed (#/m2)		0.68			
Density of Crossings in Downstream Network Watershed (#/m2)		1.25			
Density of off-channel dams in Upstream Network Watershed (#/m2)		0.14			
Density of off-channel dams in Downstream Network Watershed (#/m2)		0			
Diadromous Fish					
Downstream Alewife	None Documented	Downstream Striped Bass	None Documented		
Downstream Blueback	None Documented	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		None Docume			
# Diadromous Species Downstream (incl eel)		1			
Resident Fish			Stream Health		
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 Health	N/A		
Barrier Blocks an EBTJV Catchment	Yes	MD MBSS Fish IBI Stream Health	N/A		
Barrier Blocks a Modeled BKT Catchment (DeWeber)	Yes	MD MBSS Combined IBI Stream Health	N/A		
Native Fish Species Richness (HUC8)	36	VA INSTAR mIBI Stream Health	High		
# Rare Fish (HUC8)	0	PA IBI Stream Health	N/A		
# Rare Mussel (HUC8)	0				
# Rare Crayfish (HUC8)	0				

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