



Chesapeake Fish Passage Prioritization - Dam Fact Sheet

| CFPPP Unique ID: VA_128 | | GUEST DAM | Powhatan Plantation Dam | |
|--------------------------------|---------------------------------|--|--------------------------------|--|
| Bay-wide Diadromous Tier | 2 |     | | |
| Bay-wide Resident Tier | 2 | | | |
| Bay-wide Brook Trout Tier | N/A | | | |
| NID ID | VA09902 | | | |
| State ID | 128 | | | |
| River Name | Keys Run | | | |
| Dam Height (ft) | 31 | | | |
| Dam Type | | | | |
| Latitude | 38.2426 | | | |
| Longitude | -77.2163 | | | |
| Passage Facilities | None Documented | | | |
| Passage Year | N/A | | | |
| Size Class | 1a: Headwater (0 - 3.861 sq mi) | | | |
| HUC 12 | Mount Creek-Rappahannock Riv | | | |
| HUC 10 | Mill Creek-Rappahannock River | | | |
| HUC 8 | Lower Rappahannock | | | |
| HUC 6 | Lower Chesapeake | | | |
| HUC 4 | Lower Chesapeake | | | |

| Landcover | | | | | |
|---|-------|--|---|-------|--|
| NLCD (2011) | | | Chesapeake Conservancy (2016) | | |
| % Impervious Surface in Upstream Drainage Area | 2.11 | | % Tree Cover in ARA of Upstream Network | 86.74 | |
| % Natural Cover in Upstream Drainage Area | 73.69 | | % Tree Cover in ARA of Downstream Network | 62.07 | |
| % Forested in Upstream Drainage Area | 61.89 | | % Herbaceous Cover in ARA of Upstream Network | 7.49 | |
| % Agriculture in Upstream Drainage Area | 10.77 | | % Herbaceous Cover in ARA of Downstream Network | 28.22 | |
| % Natural Cover in ARA of Upstream Network | 87.63 | | % Barren Cover in ARA of Upstream Network | 0 | |
| % Natural Cover in ARA of Downstream Network | 61.15 | | % Barren Cover in ARA of Downstream Network | 0.27 | |
| % Forest Cover in ARA of Upstream Network | 60.67 | | % Road Impervious in ARA of Upstream Network | 0.95 | |
| % Forest Cover in ARA of Downstream Network | 38.92 | | % Road Impervious in ARA of Downstream Network | 0.91 | |
| % Agricultural Cover in ARA of Upstream Network | 6.08 | | % Other Impervious in ARA of Upstream Network | 0.85 | |
| % Agricultural Cover in ARA of Downstream Network | 32.21 | | % Other Impervious in ARA of Downstream Network | 1.01 | |
| % Impervious Surf in ARA of Upstream Network | 0.6 | | | | |
| % Impervious Surf in ARA of Downstream Network | 1.05 | | | | |

Metric descriptions can be found at:

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) | 6.76 | Upstream Size Class Gain (#) | 0 | | |
| Total Functional Network (mi) | 3335.78 | # Downsteam Natural Barriers | 0 | | |
| Absolute Gain (mi) | 6.76 | # Downstream Hydropower Dams | 0 | | |
| # Size Classes in Total Network | 5 | # Downstream Dams with Passage | 0 | | |
| # Upstream Network Size Classes | 1 | # of Downstream Barriers | 0 | | |
| 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 | | 20.81 | | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | | 0.63 | | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | | 0.91 | | | |
| 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 | Current | Downstream Striped Bass | None Documented | | |
| Downstream Blueback | Current | 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 | | Current | | | |
| # Diadromous Species Downstream (incl eel) | | 3 | | | |
| Resident Fish | | | Stream Health | | |
| Barrier is in EBTJV BKT Catchment | No | Chesapeake Bay Program Stream Health | FAIR | | |
| 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) | No | MD MBSS Combined IBI Stream Health | N/A | | |
| Native Fish Species Richness (HUC8) | 58 | VA INSTAR mIBI Stream Health | Very High | | |
| # Rare Fish (HUC8) | 2 | PA IBI Stream Health | N/A | | |
| # Rare Mussel (HUC8) | 2 | | | | |
| # Rare Crayfish (HUC8) | 0 | | | | |

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