

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_630**

HAWKWOOD DAM

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 10 |
| Bay-wide Resident Tier | 4 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | VA10926 |
| State ID | 630 |
| River Name | Wheeler Creek |
| Dam Height (ft) | 20 |
| Dam Type | Gravity |
| Latitude | 38.0193 |
| Longitude | -78.1938 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12 | Wheeler Creek |
| HUC 10 | Upper South Anna River |
| HUC 8 | Pamunkey |
| HUC 6 | Lower Chesapeake |
| HUC 4 | Lower Chesapeake |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 0.12 | % Tree Cover in ARA of Upstream Network | 80.82 |
| % Natural Cover in Upstream Drainage Area | 92.95 | % Tree Cover in ARA of Downstream Network | 71.15 |
| % Forested in Upstream Drainage Area | 80.75 | % Herbaceous Cover in ARA of Upstream Network | 12.93 |
| % Agriculture in Upstream Drainage Area | 5.55 | % Herbaceous Cover in ARA of Downstream Network | 26.82 |
| % Natural Cover in ARA of Upstream Network | 89.4 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 72.69 | % Barren Cover in ARA of Downstream Network | 0.08 |
| % Forest Cover in ARA of Upstream Network | 50.58 | % Road Impervious in ARA of Upstream Network | 0 |
| % Forest Cover in ARA of Downstream Network | 53.49 | % Road Impervious in ARA of Downstream Network | 0.57 |
| % Agricultural Cover in ARA of Upstream Network | 10.6 | % Other Impervious in ARA of Upstream Network | 0 |
| % Agricultural Cover in ARA of Downstream Network | 24.43 | % Other Impervious in ARA of Downstream Network | 0.32 |
| % Impervious Surf in ARA of Upstream Network | 0 | | |
| % Impervious Surf in ARA of Downstream Network | 0.32 | | |

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) | 8.95 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 182.35 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 8.95 | # Downstream Hydropower Dams | 0 |
| # Size Classes in Total Network | 3 | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes | 1 | # of Downstream Barriers | 5 |
| NFHAP Cumulative Disturbance Index | Very High | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 19.39 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 10.18 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0.2 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 0.75 | | |
| 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 |
| One or More DS Anadromous Species | Historical | # Diadromous Sp Dnstrm (incl eel) | 1 |

Resident Fish and Rare Species

| | |
|---|----|
| 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) | 56 |
| # Rare Fish (HUC8) | 1 |
| # Rare Mussel (HUC8) | 3 |
| # Rare Crayfish (HUC8) | 0 |
| Globally rare or fed listed fish/mussel sp HUC12 | No |
| Globally rare or fed listed fish/mussel sp in upstream or downstream functional network | No |

Stream Health

| | |
|--|------|
| Chesapeake Bay Program Stream Health | POOR |
| 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 |
| Rare fish or mussel sp in HUC12 | No |
| Rare fish or mussel in upstream or downstream functional network | No |

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