

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_49**

MADISON DAM

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 10 |
| Bay-wide Resident Tier | 8 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | VA09905 |
| State ID | 49 |
| River Name | |
| Dam Height (ft) | 35.2 |
| Dam Type | Gravity |
| Latitude | 38.2712 |
| Longitude | -77.2174 |
| 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 | 1.93 | % Tree Cover in ARA of Upstream Network | 54.33 |
| % Natural Cover in Upstream Drainage Area | 80.62 | % Tree Cover in ARA of Downstream Network | 86.74 |
| % Forested in Upstream Drainage Area | 56.18 | % Herbaceous Cover in ARA of Upstream Network | 16.7 |
| % Agriculture in Upstream Drainage Area | 0 | % Herbaceous Cover in ARA of Downstream Network | 7.49 |
| % Natural Cover in ARA of Upstream Network | 93.57 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 87.63 | % Barren Cover in ARA of Downstream Network | 0 |
| % Forest Cover in ARA of Upstream Network | 55.71 | % Road Impervious in ARA of Upstream Network | 1.28 |
| % Forest Cover in ARA of Downstream Network | 60.67 | % Road Impervious in ARA of Downstream Network | 0.95 |
| % Agricultural Cover in ARA of Upstream Network | 0 | % Other Impervious in ARA of Upstream Network | 2.14 |
| % Agricultural Cover in ARA of Downstream Network | 6.08 | % Other Impervious in ARA of Downstream Network | 0.85 |
| % Impervious Surf in ARA of Upstream Network | 0.25 | | |
| % Impervious Surf in ARA of Downstream Network | 0.6 | | |

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) | 0.26 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 7.02 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 0.26 | # Downstream Hydropower Dams | 0 |
| # Size Classes in Total Network | 1 | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes | 0 | # of Downstream Barriers | 1 |
| NFHAP Cumulative Disturbance Index | Not Scored / Unavailable at this scale | | |
| Dam is on Conserved Land | No | | |
| % 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) | 0 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 0.63 | | |
| 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 | None Documented |
| Presence of 1 or More Downstream Anadromous Species | Historical | | |
| # Diadromous Species Downstream (incl eel) | 0 | | |

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) | 58 |
| # Rare Fish (HUC8) | 2 |
| # Rare Mussel (HUC8) | 2 |
| # 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 | Very High |
| PA IBI Stream Health | N/A |

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf