

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12032**

ROCKY GORGE DAM

| | |
|---------------------------|-----------------------------------|
| Bay-wide Diadromous Tier | 1 |
| Bay-wide Resident Tier | 3 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | MD00020 |
| State ID | PXU08 |
| River Name | Patuxent River |
| Dam Height (ft) | 134 |
| Dam Type | Concrete Buttress |
| Latitude | 39.1169 |
| Longitude | -76.875 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 2: Small River (38.61 - 200 sq mi |
| HUC 12 | Horsepen Branch-Patuxent River |
| HUC 10 | Upper Patuxent River |
| HUC 8 | Patuxent |
| HUC 6 | Upper Chesapeake |
| HUC 4 | Upper Chesapeake |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 2.08 | % Tree Cover in ARA of Upstream Network | 69.99 |
| % Natural Cover in Upstream Drainage Area | 42.88 | % Tree Cover in ARA of Downstream Network | 62.66 |
| % Forested in Upstream Drainage Area | 35.72 | % Herbaceous Cover in ARA of Upstream Network | 20.25 |
| % Agriculture in Upstream Drainage Area | 42.32 | % Herbaceous Cover in ARA of Downstream Network | 24.77 |
| % Natural Cover in ARA of Upstream Network | 73.16 | % Barren Cover in ARA of Upstream Network | 0.16 |
| % Natural Cover in ARA of Downstream Network | 71.7 | % Barren Cover in ARA of Downstream Network | 0.29 |
| % Forest Cover in ARA of Upstream Network | 55.22 | % Road Impervious in ARA of Upstream Network | 0.36 |
| % Forest Cover in ARA of Downstream Network | 37.4 | % Road Impervious in ARA of Downstream Network | 1.31 |
| % Agricultural Cover in ARA of Upstream Network | 17.66 | % Other Impervious in ARA of Upstream Network | 1.29 |
| % Agricultural Cover in ARA of Downstream Network | 12.43 | % Other Impervious in ARA of Downstream Network | 3.67 |
| % Impervious Surf in ARA of Upstream Network | 1.17 | | |
| % Impervious Surf in ARA of Downstream Network | 4.02 | | |

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) | 127.9 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 1358.66 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 127.9 | # Downstream Hydropower Dams | 0 |
| # Size Classes in Total Network | 4 | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes | 3 | # of Downstream Barriers | 0 |
| NFHAP Cumulative Disturbance Index | Very High | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 35.13 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 19.68 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0.65 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 0.64 | | |
| Density of off-channel dams in Upstream Network Watershed (#/m2) | 0 | | |
| Density of off-channel dams in Downstream Network Watershed (#/m2) | 0.02 | | |

Diadromous Fish

| | | | |
|-----------------------------------|---------|-----------------------------------|-----------------|
| Downstream Alewife | Current | Downstream Striped Bass | None Documented |
| Downstream Blueback | Current | Downstream Atlantic Sturgeon | None Documented |
| Downstream American Shad | Current | Downstream Shortnose Sturgeon | None Documented |
| Downstream Hickory Shad | Current | Downstream American Eel | Current |
| One or More DS Anadromous Species | Current | # Diadromous Sp Dnstrm (incl eel) | 5 |

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) | 51 |
| # Rare Fish (HUC8) | 0 |
| # Rare Mussel (HUC8) | 1 |
| # 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 | Poor |
| MD MBSS Fish IBI Stream Health | Poor |
| MD MBSS Combined IBI Stream Health | Poor |
| VA INSTAR mIBI Stream Health | N/A |
| PA IBI Stream Health | N/A |
| Rare fish or mussel sp in HUC12 | Yes |
| Rare fish or mussel in upstream or downstream functional network | Yes |

Metric descriptions can be found at:

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