

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_1225**

**GODFREY DAM**

|                           |                                 |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier  | 6                               |
| Bay-wide Resident Tier    | 4                               |
| Bay-wide Brook Trout Tier | N/A                             |
| NID ID                    | VA10712                         |
| State ID                  | 1225                            |
| River Name                | North Fork Catoctin Creek       |
| Dam Height (ft)           | 10                              |
| Dam Type                  | Gravity                         |
| Latitude                  | 39.1874                         |
| Longitude                 | -77.7024                        |
| Passage Facilities        | None Documented                 |
| Passage Year              | N/A                             |
| Size Class                | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12                    | South Fork Catoctin Creek       |
| HUC 10                    | Catoctin Creek                  |
| HUC 8                     | Middle Potomac-Catoctin         |
| HUC 6                     | Potomac                         |
| HUC 4                     | Potomac                         |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 0.43  | % Tree Cover in ARA of Upstream Network         | 55.28 |
| % Natural Cover in Upstream Drainage Area         | 50.72 | % Tree Cover in ARA of Downstream Network       | 50.17 |
| % Forested in Upstream Drainage Area              | 49.37 | % Herbaceous Cover in ARA of Upstream Network   | 39.02 |
| % Agriculture in Upstream Drainage Area           | 43.86 | % Herbaceous Cover in ARA of Downstream Network | 39.72 |
| % Natural Cover in ARA of Upstream Network        | 45.16 | % Barren Cover in ARA of Upstream Network       | 0.74  |
| % Natural Cover in ARA of Downstream Network      | 43.71 | % Barren Cover in ARA of Downstream Network     | 0.35  |
| % Forest Cover in ARA of Upstream Network         | 39.91 | % Road Impervious in ARA of Upstream Network    | 1.11  |
| % Forest Cover in ARA of Downstream Network       | 30.17 | % Road Impervious in ARA of Downstream Network  | 1.96  |
| % Agricultural Cover in ARA of Upstream Network   | 45.09 | % Other Impervious in ARA of Upstream Network   | 1.48  |
| % Agricultural Cover in ARA of Downstream Network | 38.99 | % Other Impervious in ARA of Downstream Network | 3.66  |
| % Impervious Surf in ARA of Upstream Network      | 0.77  |   |       |
| % Impervious Surf in ARA of Downstream Network    | 3.98  |   |       |

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric\\_Glossary.pdf](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)                                   | 32.65     | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 2945.06   | # Downstream Natural Barriers  | 1 |
| Absolute Gain (mi)   | 32.65     | # Downstream Hydropower Dams   | 0 |
| # Size Classes in Total Network                                    | 7         | # Downstream Dams with Passage | 1 |
| # Upstream Network Size Classes                                    | 2         | # of Downstream Barriers       | 2 |
| NFHAP Cumulative Disturbance Index                                 | Very High |                                |   |
| Dam is on Conserved Land   | No        |                                |   |
| % Conserved Land in 100m Buffer of Upstream Network                | 9.56      |                                |   |
| % Conserved Land in 100m Buffer of Downstream Network              | 19.33     |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 1.33      |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 1.35      |                                |   |
| 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               | Potential 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         |
| One or More DS Anadromous Species | Potential Curre   | # 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   | Yes |
| Barrier Blocks a Modeled BKT Catchment (DeWeber)  | Yes |
| Native Fish Species Richness (HUC8)   | 51  |
| # Rare Fish (HUC8)  | 0   |
| # Rare Mussel (HUC8)  | 4   |
| # 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 | Yes |

## 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                                     | Moderate |
| PA IBI Stream Health   | N/A      |
| Rare fish or mussel sp in HUC12                                  | No       |
| Rare fish or mussel in upstream or downstream functional network | Yes      |

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