# Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1216** **GOOSE CREEK DAM**

| | |
|---|---|
| Bay-wide Diadromous Tier | 6 |
| Bay-wide Resident Tier | 5 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | VA10703 |
| State ID | 1216 |
| River Name | Goose Creek |
| Dam Height (ft) | 39 |
| Dam Type | Gravity |
| Latitude | 39.056 |
| Longitude | -77.5259 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 3a: Medium Tributary River (200 |
| HUC 12 | Big Branch-Goose Creek |
| HUC 10 | Lower Goose Creek |
| HUC 8 | Middle Potomac-Catoctin |
| HUC 6 | Potomac |
| HUC 4 | Potomac |


## Landcover

| NLCD (2011) | |
|---|---|
| % Impervious Surface in Upstream Drainage Area | 0.93 |
| % Natural Cover in Upstream Drainage Area | 40.39 |
| % Forested in Upstream Drainage Area | 39 |
| % Agriculture in Upstream Drainage Area | 51.36 |
| % Natural Cover in ARA of Upstream Network | 70.39 |
| % Natural Cover in ARA of Downstream Network | 43.71 |
| % Forest Cover in ARA of Upstream Network | 40.66 |
| % Forest Cover in ARA of Downstream Network | 30.17 |
| % Agricultral Cover in ARA of Upstream Network | 10.93 |
| % Agricultral Cover in ARA of Downstream Network | 38.99 |
| % Impervious Surf in ARA of Upstream Network | 5.33 |
| % Impervious Surf in ARA of Downstream Network | 3.98 |

| Chesapeake Conservancy (2016) | |
|---|---|
| % Tree Cover in ARA of Upstream Network | 65.91 |
| % Tree Cover in ARA of Downstream Network | 50.17 |
| % Herbaceaous Cover in ARA of Upstream Network | 8.15 |
| % Herbaceaous Cover in ARA of Downstream Network | 39.72 |
| % Barren Cover in ARA of Upstream Network | 0 |
| % Barren Cover in ARA of Downstream Network | 0.35 |
| % Road Impervious in ARA of Upstream Network | 1.83 |
| % Road Impervious in ARA of Downstream Network | 1.96 |
| % Other Impervious in ARA of Upstream Network | 1.22 |
| % Other Impervious in ARA of Downstream Network | 3.66 |

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) | 2.78 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 2915.19 | # Downsteam Natural Barriers | 1 |
| Absolute Gain (mi) | 2.78 | # 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 | High |
| Dam is on Conserved Land | No |
| % Conserved Land in 100m Buffer of Upstream Network | 7.55 |
| % Conserved Land in 100m Buffer of Downstream Network | 19.33 |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0.78 |
| 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 | 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 | 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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