# Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_812** **SWIFT CREEK MILL DAM**

| | |
|---|---|
| Bay-wide Diadromous Tier | 2 |
| Bay-wide Resident Tier | 9 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | |
| State ID | 812 |
| River Name | Swift Creek |
| Dam Height (ft) | 0 |
| Dam Type | |
| Latitude | 37.283 |
| Longitude | -77.4119 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 2: Small River (38.61 - 200 sq mi |
| HUC 12 | Franks Branch-Swift Creek |
| HUC 10 | Swift Creek |
| HUC 8 | Appomattox |
| HUC 6 | James |
| HUC 4 | Lower Chesapeake |


## Landcover

| NLCD (2011) | |
|---|---|
| % Impervious Surface in Upstream Drainage Area | 3.79 |
| % Natural Cover in Upstream Drainage Area | 72.02 |
| % Forested in Upstream Drainage Area | 62.27 |
| % Agriculture in Upstream Drainage Area | 8.59 |
| % Natural Cover in ARA of Upstream Network | 48.82 |
| % Natural Cover in ARA of Downstream Network | 65.01 |
| % Forest Cover in ARA of Upstream Network | 35.47 |
| % Forest Cover in ARA of Downstream Network | 28.9 |
| % Agricultral Cover in ARA of Upstream Network | 7.86 |
| % Agricultral Cover in ARA of Downstream Network | 7.16 |
| % Impervious Surf in ARA of Upstream Network | 8.37 |
| % Impervious Surf in ARA of Downstream Network | 8.57 |

| Chesapeake Conservancy (2016) | |
|---|---|
| % Tree Cover in ARA of Upstream Network | 45.78 |
| % Tree Cover in ARA of Downstream Network | 57.23 |
| % Herbaceaous Cover in ARA of Upstream Network | 30.2 |
| % Herbaceaous Cover in ARA of Downstream Network | 22.7 |
| % Barren Cover in ARA of Upstream Network | 0 |
| % Barren Cover in ARA of Downstream Network | 0.46 |
| % Road Impervious in ARA of Upstream Network | 5.67 |
| % Road Impervious in ARA of Downstream Network | 3.83 |
| % Other Impervious in ARA of Upstream Network | 13.55 |
| % Other Impervious in ARA of Downstream Network | 6.74 |

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) | 1.94 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 159.44 | # Downsteam Natural Barriers | 0 |
| Absolute Gain (mi) | 1.94 | # Downstream Hydropower Dams | 0 |
| # Size Classes in Total Network | 4 | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes | 2 | # of Downstream Barriers | 0 |

| | |
|---|---|
| NFHAP Cumulative Disturbance Index | Moderate |
| Dam is on Conserved Land | No |
| % Conserved Land in 100m Buffer of Upstream Network | 0 |
| % Conserved Land in 100m Buffer of Downstream Network | 9.32 |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0.94 |
| Density of Crossings in Downstream Network Watershed (#/m2) | 1.74 |
| 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 | 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) | 58 |
| # 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 | 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 | Very 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 | Yes |

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