# Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1249** **OCCOQUAN UPPER DAM**

| | |
|---|---|
| Diadromous Tier | 7 |
| Brook Trout Tier | N/A |
| Resident Tier | 2 |
| NID ID | |
| State ID | 1249 |
| River Name | Occoquan River |
| Dam Height (ft) | 65 |
| Dam Type | Gravity |
| Latitude | 38.6946 |
| Longitude | -77.2769 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 3a: Medium Tributary River (200 |
| HUC 12 | Occoquan Reservoir-Occoquan |
| HUC 10 | Occoquan River-Potomac River |
| HUC 8 | Middle Potomac-Anacostia-Occ |
| HUC 6 | Potomac |
| HUC 4 | Potomac |


## Landcover

| NLCD (2011) | |
|---|---|
| % Impervious Surface in Upstream Drainage Area | 6.94 |
| % Natural Cover in Upstream Drainage Area | 48.04 |
| % Forested in Upstream Drainage Area | 38.43 |
| % Agriculture in Upstream Drainage Area | 24.41 |
| % Natural Cover in ARA of Upstream Network | 57.51 |
| % Natural Cover in ARA of Downstream Network | 84.38 |
| % Forest Cover in ARA of Upstream Network | 41.43 |
| % Forest Cover in ARA of Downstream Network | 68.35 |
| % Agricultral Cover in ARA of Upstream Network | 9.25 |
| % Agricultral Cover in ARA of Downstream Network | 0.25 |
| % Impervious Surf in ARA of Upstream Network | 9.69 |
| % Impervious Surf in ARA of Downstream Network | 1.54 |

| Chesapeake Conservancy (2016) | |
|---|---|
| % Tree Cover in ARA of Upstream Network | 61.29 |
| % Tree Cover in ARA of Downstream Network | 80.02 |
| % Herbaceaous Cover in ARA of Upstream Network | 22.6 |
| % Herbaceaous Cover in ARA of Downstream Network | 8.13 |
| % Barren Cover in ARA of Upstream Network | 0.58 |
| % Barren Cover in ARA of Downstream Network | 0 |
| % Road Impervious in ARA of Upstream Network | 4.09 |
| % Road Impervious in ARA of Downstream Network | 0.9 |
| % Other Impervious in ARA of Upstream Network | 7.53 |
| % Other Impervious in ARA of Downstream Network | 3.17 |

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy

# Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1249** **OCCOQUAN UPPER DAM**

## Network, System Type and Condition

| | | | |
|---|---|---|---|
| Functional Upstream Network (mi) | 587.68 | Upstream Size Class Gain (#) | 2 |
| Total Functional Network (mi) | 592.83 | # Downsteam Natural Barriers | 0 |
| Absolute Gain (mi) | 5.15 | # Downstream Hydropower Dams | 1 |
| # Size Classes in Total Network | 4 | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes | 4 | # 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 | 13.07 |
| % Conserved Land in 100m Buffer of Downstream Network | 0 |
| Density of Crossings in Upstream Network Watershed (#/m2) | 1.62 |
| Density of Crossings in Downstream Network Watershed (#/m2) | 1.06 |
| 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 | Historical | 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) | 62 |
| # Rare Fish (HUC8) | 1 |
| # Rare Mussel (HUC8) | 5 |
| # Rare Crayfish (HUC8) | 0 |

## Stream Health

| | |
|---|---|
| Chesapeake Bay Program Stream Health | FAIR |
| MD MBSS Benthic IBI Stream Health | Fair |
| MD MBSS Fish IBI Stream Health | Fair |
| MD MBSS Combined IBI Stream Health | Fair |
| VA INSTAR mIBI Stream Health | High |
| PA IBI Stream Health | N/A |

Metric descriptions can be found at:
http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric_Glossary.pdf

The Nature Conservancy