

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_28-103** **COMET LAKE**

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 17 |
| Bay-wide Resident Tier | 11 |
| Bay-wide Brook Trout Tier | 20 |
| NID ID | |
| State ID | 28-103 |
| River Name | Red Run |
| Dam Height (ft) | 38 |
| Dam Type | Earth |
| Latitude | 39.741 |
| Longitude | -77.5061 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12 | Red Run |
| HUC 10 | Antietam Creek |
| HUC 8 | Conococheague-Opequon |
| HUC 6 | Potomac |
| HUC 4 | Potomac |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 3.55 | % Tree Cover in ARA of Upstream Network | 63.15 |
| % Natural Cover in Upstream Drainage Area | 81.15 | % Tree Cover in ARA of Downstream Network | 84.89 |
| % Forested in Upstream Drainage Area | 75.52 | % Herbaceous Cover in ARA of Upstream Network | 21.03 |
| % Agriculture in Upstream Drainage Area | 0.81 | % Herbaceous Cover in ARA of Downstream Network | 7.9 |
| % Natural Cover in ARA of Upstream Network | 100 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 76.92 | % Barren Cover in ARA of Downstream Network | 0 |
| % Forest Cover in ARA of Upstream Network | 76.27 | % Road Impervious in ARA of Upstream Network | 1.2 |
| % Forest Cover in ARA of Downstream Network | 75.59 | % Road Impervious in ARA of Downstream Network | 5.58 |
| % Agricultural Cover in ARA of Upstream Network | 0 | % Other Impervious in ARA of Upstream Network | 6.47 |
| % Agricultural Cover in ARA of Downstream Network | 0 | % Other Impervious in ARA of Downstream Network | 0.78 |
| % Impervious Surf in ARA of Upstream Network | 0 | | |
| % Impervious Surf in ARA of Downstream Network | 2.63 | | |

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) | 0.27 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 1.31 | # Downstream Natural Barriers | 1 |
| Absolute Gain (mi) | 0.27 | # Downstream Hydropower Dams | 0 |
| # Size Classes in Total Network | 1 | # Downstream Dams with Passage | 1 |
| # Upstream Network Size Classes | 0 | # of Downstream Barriers | 7 |
| NFHAP Cumulative Disturbance Index | | High | |
| Dam is on Conserved Land | | No | |
| % Conserved Land in 100m Buffer of Upstream Network | | 0 | |
| % Conserved Land in 100m Buffer of Downstream Network | | 0 | |
| Density of Crossings in Upstream Network Watershed (#/m2) | | 0 | |
| Density of Crossings in Downstream Network Watershed (#/m2) | | 0.78 | |
| 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 | None Documented | Downstream Striped Bass | None Documented |
| Downstream Blueback | None Documented | 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 | None Docume | # Diadromous Sp Dnstrm (incl eel) | 1 |
| Resident Fish and Rare Species | | Stream Health | |
| Barrier is in EBTJV BKT Catchment | Yes | Chesapeake Bay Program Stream Health | POOR |
| Barrier is in Modeled BKT Catchment (DeWeber) | No | MD MBSS Benthic IBI Stream Health | Poor |
| Barrier Blocks an EBTJV Catchment | No | MD MBSS Fish IBI Stream Health | Fair |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | No | MD MBSS Combined IBI Stream Health | Poor |
| Native Fish Species Richness (HUC8) | 42 | VA INSTAR mIBI Stream Health | N/A |
| # Rare Fish (HUC8) | 0 | PA IBI Stream Health | Poor |
| # Rare Mussel (HUC8) | 5 | | |
| # Rare Crayfish (HUC8) | 0 | | |
| Globally rare or fed listed fish/mussel sp HUC12 | No | Rare fish or mussel sp in HUC12 | No |
| Globally rare or fed listed fish/mussel sp in upstream or downstream functional network | No | Rare fish or mussel in upstream or downstream functional network | No |

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