

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_EL002** **ELKTON DAM**

| | |
|--------------------|------------------------------------|
| Diadromous Tier | 1 |
| Brook Trout Tier | N/A |
| Resident Tier | 4 |
| NID ID | |
| State ID | EL002 |
| River Name | Big Elk Creek |
| Dam Height (ft) | 3 |
| Dam Type | |
| Latitude | 39.6124 |
| Longitude | -75.8172 |
| Passage Facilities | Denil |
| Passage Year | 1993 |
| Size Class | 2: Small River (38.61 - 200 sq mi) |
| HUC 12 | Big Elk Creek |
| HUC 10 | Elk River |
| HUC 8 | Chester-Sassafras |
| HUC 6 | Upper Chesapeake |
| HUC 4 | Upper Chesapeake |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 4.12 | % Tree Cover in ARA of Upstream Network | 58.89 |
| % Natural Cover in Upstream Drainage Area | 32.7 | % Tree Cover in ARA of Downstream Network | 55.11 |
| % Forested in Upstream Drainage Area | 25.18 | % Herbaceous Cover in ARA of Upstream Network | 35.4 |
| % Agriculture in Upstream Drainage Area | 43.09 | % Herbaceous Cover in ARA of Downstream Network | 32.79 |
| % Natural Cover in ARA of Upstream Network | 57.03 | % Barren Cover in ARA of Upstream Network | 0.28 |
| % Natural Cover in ARA of Downstream Network | 61.7 | % Barren Cover in ARA of Downstream Network | 0.19 |
| % Forest Cover in ARA of Upstream Network | 40.67 | % Road Impervious in ARA of Upstream Network | 1.11 |
| % Forest Cover in ARA of Downstream Network | 30.26 | % Road Impervious in ARA of Downstream Network | 1.37 |
| % Agricultural Cover in ARA of Upstream Network | 28.09 | % Other Impervious in ARA of Upstream Network | 2.55 |
| % Agricultural Cover in ARA of Downstream Network | 20.71 | % Other Impervious in ARA of Downstream Network | 3.95 |
| % Impervious Surf in ARA of Upstream Network | 1.88 | | |
| % Impervious Surf in ARA of Downstream Network | 3.45 | | |

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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ELKTON DAM

Network, System Type and Condition

| | | | |
|--|-----------|--------------------------------|---|
| Functional Upstream Network (mi) | 118.88 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 408.52 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 118.88 | # Downstream Hydropower Dams | 0 |
| # Size Classes in Total Network | 4 | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes | 3 | # of Downstream Barriers | 0 |
| NFHAP Cumulative Disturbance Index | Very High | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 21.88 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 17.12 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 1.12 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 0.54 | | |
| Density of off-channel dams in Upstream Network Watershed (#/m2) | 0 | | |
| Density of off-channel dams in Downstream Network Watershed (#/m2) | 0.02 | | |

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 |
| Presence of 1 or More Downstream Anadromous Species | Current | | |
| # Diadromous Species Downstream (incl eel) | 5 | | |

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) | 48 |
| # Rare Fish (HUC8) | 1 |
| # Rare Mussel (HUC8) | 2 |
| # Rare Crayfish (HUC8) | 0 |

Stream Health

| | |
|--------------------------------------|------|
| Chesapeake Bay Program Stream Health | POOR |
| 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 | N/A |
| PA IBI Stream Health | Poor |

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