

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **MD_12076** **MEADOWLAKE DAM**

| | |
|---------------------------|------------------------------------|
| Bay-wide Diadromous Tier | 6 |
| Bay-wide Resident Tier | 8 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | MD00072 |
| State ID | 12076 |
| River Name | Linganore Creek |
| Dam Height (ft) | 43.65 |
| Dam Type | Earth |
| Latitude | 39.4163 |
| Longitude | -77.3269 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 2: Small River (38.61 - 200 sq mi) |
| HUC 12 | Lower Linganore Creek |
| HUC 10 | Middle Monocacy River |
| HUC 8 | Monocacy |
| HUC 6 | Potomac |
| HUC 4 | Potomac |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 1.8 | % Tree Cover in ARA of Upstream Network | 34.99 |
| % Natural Cover in Upstream Drainage Area | 31.17 | % Tree Cover in ARA of Downstream Network | 50.17 |
| % Forested in Upstream Drainage Area | 27.09 | % Herbaceous Cover in ARA of Upstream Network | 16.93 |
| % Agriculture in Upstream Drainage Area | 56.63 | % Herbaceous Cover in ARA of Downstream Network | 39.72 |
| % Natural Cover in ARA of Upstream Network | 80.28 | % Barren Cover in ARA of Upstream Network | 1.47 |
| % Natural Cover in ARA of Downstream Network | 43.71 | % Barren Cover in ARA of Downstream Network | 0.35 |
| % Forest Cover in ARA of Upstream Network | 33.8 | % Road Impervious in ARA of Upstream Network | 0.64 |
| % Forest Cover in ARA of Downstream Network | 30.17 | % Road Impervious in ARA of Downstream Network | 1.96 |
| % Agricultural Cover in ARA of Upstream Network | 0 | % Other Impervious in ARA of Upstream Network | 2.43 |
| % Agricultural Cover in ARA of Downstream Network | 38.99 | % Other Impervious in ARA of Downstream Network | 3.66 |
| % Impervious Surf in ARA of Upstream Network | 6.13 | | |
| % Impervious Surf in ARA of Downstream Network | 3.98 | | |

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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MEADOWLAKE DAM

Network, System Type and Condition

| | | | |
|--|---------|--------------------------------|---|
| Functional Upstream Network (mi) | 0.12 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 2912.53 | # Downstream Natural Barriers | 1 |
| Absolute Gain (mi) | 0.12 | # Downstream Hydropower Dams | 0 |
| # Size Classes in Total Network | 7 | # Downstream Dams with Passage | 1 |
| # Upstream Network Size Classes | 0 | # of Downstream Barriers | 2 |
| 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 | 19.33 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0 | | |
| 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 |
| Presence of 1 or More Downstream Anadromous Species | Potential Current | | |
| # Diadromous Species Downstream (incl eel) | 1 | | |

Resident Fish

| | |
|--|-----|
| 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) | 36 |
| # Rare Fish (HUC8) | 0 |
| # Rare Mussel (HUC8) | 3 |
| # Rare Crayfish (HUC8) | 0 |

Stream Health

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

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