

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_1142**

NEWMAN LAKE DAM

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 20 |
| Bay-wide Resident Tier | 17 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | |
| State ID | 1142 |
| River Name | |
| Dam Height (ft) | 18 |
| Dam Type | Gravity |
| Latitude | 38.4314 |
| Longitude | -78.8752 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1b: Creek (3.861 - 38.61 sq mi) |
| HUC 12 | Blacks Run |
| HUC 10 | Lower North River |
| HUC 8 | South Fork Shenandoah |
| HUC 6 | Potomac |
| HUC 4 | Potomac |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 37.57 | % Tree Cover in ARA of Upstream Network | 9.73 |
| % Natural Cover in Upstream Drainage Area | 9.99 | % Tree Cover in ARA of Downstream Network | 46.52 |
| % Forested in Upstream Drainage Area | 9.29 | % Herbaceous Cover in ARA of Upstream Network | 21.85 |
| % Agriculture in Upstream Drainage Area | 7.77 | % Herbaceous Cover in ARA of Downstream Network | 44.63 |
| % Natural Cover in ARA of Upstream Network | 0 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 40.71 | % Barren Cover in ARA of Downstream Network | 0.19 |
| % Forest Cover in ARA of Upstream Network | 0 | % Road Impervious in ARA of Upstream Network | 6.37 |
| % Forest Cover in ARA of Downstream Network | 38.31 | % Road Impervious in ARA of Downstream Network | 2.26 |
| % Agricultural Cover in ARA of Upstream Network | 0 | % Other Impervious in ARA of Upstream Network | 47.82 |
| % Agricultural Cover in ARA of Downstream Network | 42.34 | % Other Impervious in ARA of Downstream Network | 4.74 |
| % Impervious Surf in ARA of Upstream Network | 44.35 | | |
| % Impervious Surf in ARA of Downstream Network | 4.76 | | |

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) | 6.98 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 1396.21 | # Downstream Natural Barriers | 2 |
| Absolute Gain (mi) | 6.98 | # Downstream Hydropower Dams | 4 |
| # Size Classes in Total Network | 5 | # Downstream Dams with Passage | 3 |
| # Upstream Network Size Classes | 2 | # of Downstream Barriers | 8 |
| NFHAP Cumulative Disturbance Index | Very High | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 0 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 20.2 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 4.74 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 1.71 | | |
| 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 | None Documented |
| Presence of 1 or More Downstream Anadromous Species | None Documented | | |
| # 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 | Yes |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | Yes |
| Native Fish Species Richness (HUC8) | 35 |
| # Rare Fish (HUC8) | 0 |
| # Rare Mussel (HUC8) | 0 |
| # Rare Crayfish (HUC8) | 0 |

Stream Health

| | |
|--------------------------------------|-----------|
| Chesapeake Bay Program Stream Health | VERY_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 | Moderate |
| PA IBI Stream Health | N/A |

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