

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **PA_58-030** **QUAKER LAKE**

| | |
|--------------------|---------------------------------|
| Diadromous Tier | 13 |
| Brook Trout Tier | 7 |
| Resident Tier | 5 |
| NID ID | |
| State ID | 58-030 |
| River Name | |
| Dam Height (ft) | 6 |
| Dam Type | Concrete |
| Latitude | 41.9797 |
| Longitude | -75.9233 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12 | Little Snake Creek |
| HUC 10 | Lower Susquehanna River |
| HUC 8 | Upper Susquehanna |
| HUC 6 | Upper Susquehanna |
| HUC 4 | Susquehanna |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 0.62 | % Tree Cover in ARA of Upstream Network | 25.68 |
| % Natural Cover in Upstream Drainage Area | 76.71 | % Tree Cover in ARA of Downstream Network | 55.13 |
| % Forested in Upstream Drainage Area | 59.59 | % Herbaceous Cover in ARA of Upstream Network | 10.06 |
| % Agriculture in Upstream Drainage Area | 16.89 | % Herbaceous Cover in ARA of Downstream Network | 30.98 |
| % Natural Cover in ARA of Upstream Network | 82.61 | % Barren Cover in ARA of Upstream Network | 0.24 |
| % Natural Cover in ARA of Downstream Network | 64.96 | % Barren Cover in ARA of Downstream Network | 0.65 |
| % Forest Cover in ARA of Upstream Network | 26.75 | % Road Impervious in ARA of Upstream Network | 1.81 |
| % Forest Cover in ARA of Downstream Network | 49.92 | % Road Impervious in ARA of Downstream Network | 2.46 |
| % Agricultural Cover in ARA of Upstream Network | 3.19 | % Other Impervious in ARA of Upstream Network | 4.73 |
| % Agricultural Cover in ARA of Downstream Network | 19.59 | % Other Impervious in ARA of Downstream Network | 4.94 |
| % Impervious Surf in ARA of Upstream Network | 1.73 | | |
| % Impervious Surf in ARA of Downstream Network | 4.64 | | |

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) | 1.86 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 441.47 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 1.86 | # Downstream Hydropower Dams | 5 |
| # Size Classes in Total Network | 4 | # Downstream Dams with Passage | 5 |
| # Upstream Network Size Classes | 1 | # of Downstream Barriers | 10 |
| NFHAP Cumulative Disturbance Index | Moderate | | |
| Dam is on Conserved Land | No | | |
| % Conserved Land in 100m Buffer of Upstream Network | 1.1 | | |
| % Conserved Land in 100m Buffer of Downstream Network | 6.33 | | |
| Density of Crossings in Upstream Network Watershed (#/m2) | 0.83 | | |
| Density of Crossings in Downstream Network Watershed (#/m2) | 1.02 | | |
| 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 |
| Presence of 1 or More Downstream Anadromous Species | None Docume | | |
| # Diadromous Species Downstream (incl eel) | 1 | | |

Resident Fish

| | |
|--|-----|
| Barrier is in EBTJV BKT Catchment | No |
| Barrier is in Modeled BKT Catchment (DeWeber) | Yes |
| Barrier Blocks an EBTJV Catchment | Yes |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | No |
| Native Fish Species Richness (HUC8) | 48 |
| # Rare Fish (HUC8) | 2 |
| # Rare Mussel (HUC8) | 2 |
| # Rare Crayfish (HUC8) | 0 |

Stream Health

| | |
|--------------------------------------|------|
| Chesapeake Bay Program Stream Health | GOOD |
| 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 | N/A |
| PA IBI Stream Health | Good |

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