

Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA_542**

TALLEYS DAM

| | |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier | 10 |
| Bay-wide Resident Tier | 8 |
| Bay-wide Brook Trout Tier | N/A |
| NID ID | VA08515 |
| State ID | 542 |
| River Name | Matadequin Creek |
| Dam Height (ft) | 15 |
| Dam Type | Gravity |
| Latitude | 37.6353 |
| Longitude | -77.2744 |
| Passage Facilities | None Documented |
| Passage Year | N/A |
| Size Class | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12 | Montague Creek-Pamunkey Riv |
| HUC 10 | Middle Pamunkey River |
| HUC 8 | Pamunkey |
| HUC 6 | Lower Chesapeake |
| HUC 4 | Lower Chesapeake |



Landcover

| NLCD (2011) | | Chesapeake Conservancy (2016) | |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area | 3.05 | % Tree Cover in ARA of Upstream Network | 54.36 |
| % Natural Cover in Upstream Drainage Area | 43.38 | % Tree Cover in ARA of Downstream Network | 73.58 |
| % Forested in Upstream Drainage Area | 36.86 | % Herbaceous Cover in ARA of Upstream Network | 37.78 |
| % Agriculture in Upstream Drainage Area | 33.89 | % Herbaceous Cover in ARA of Downstream Network | 14.77 |
| % Natural Cover in ARA of Upstream Network | 54.42 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 84.32 | % Barren Cover in ARA of Downstream Network | 0 |
| % Forest Cover in ARA of Upstream Network | 43.86 | % Road Impervious in ARA of Upstream Network | 1.03 |
| % Forest Cover in ARA of Downstream Network | 54.73 | % Road Impervious in ARA of Downstream Network | 1.27 |
| % Agricultural Cover in ARA of Upstream Network | 33.62 | % Other Impervious in ARA of Upstream Network | 4.37 |
| % Agricultural Cover in ARA of Downstream Network | 10.65 | % Other Impervious in ARA of Downstream Network | 2.24 |
| % Impervious Surf in ARA of Upstream Network | 2.07 | | |
| % Impervious Surf in ARA of Downstream Network | 0.67 | | |

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) | 2.03 | Upstream Size Class Gain (#) | 0 |
| Total Functional Network (mi) | 13.08 | # Downstream Natural Barriers | 0 |
| Absolute Gain (mi) | 2.03 | # Downstream Hydropower Dams | 0 |
| # Size Classes in Total Network | 2 | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes | 1 | # of Downstream Barriers | 2 |
| NFHAP Cumulative Disturbance Index | | Not Scored / Unavailable at this scale | |
| 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) | | 1.11 | |
| 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 | Historical | 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 |
| One or More DS Anadromous Species | Historical | # Diadromous Sp Dnstrm (incl eel) | 0 |
| Resident Fish and Rare Species | | Stream Health | |
| Barrier is in EBTJV BKT Catchment | No | Chesapeake Bay Program Stream Health | FAIR |
| Barrier is in Modeled BKT Catchment (DeWeber) | No | MD MBSS Benthic IBI Stream Health | N/A |
| Barrier Blocks an EBTJV Catchment | No | MD MBSS Fish IBI Stream Health | N/A |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | No | MD MBSS Combined IBI Stream Health | N/A |
| Native Fish Species Richness (HUC8) | 56 | VA INSTAR mIBI Stream Health | Very High |
| # Rare Fish (HUC8) | 1 | PA IBI Stream Health | N/A |
| # Rare Mussel (HUC8) | 3 | | |
| # Rare Crayfish (HUC8) | 0 | | |
| Globally rare or fed listed fish/mussel sp HUC12 | Yes | Rare fish or mussel sp in HUC12 | Yes |
| 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 |

Metric descriptions can be found at:

http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-prot02/images/Metric_Glossary.pdf