Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_309 PAINES DAM

10

Bay-wide Resident Tier 9
Bay-wide Brook Trout Tier N/A

NID ID VA00311

Bav-wide Diadromous Tier

State ID 309

River Name

Latitude

Dam Height (ft) 30

Dam Type Earth

Longitude -78.4586

Passage Facilities None Documented

Passage Year N/A

Size Class 1a: Headwater (0 - 3.861 sq mi)

HUC 12 South Fork Rivanna River

38.0947

HUC 10 South Fork Rivanna River

HUC 8 Rivanna HUC 6 James

HUC 4 Lower Chesapeake







| | Land | cover | |
|--|-------|--|-------|
| NLCD (2011) | | Chesapeake Conservancy (2016) | |
| % Impervious Surface in Upstream Drainage Area | 20.41 | % Tree Cover in ARA of Upstream Network | 60.6 |
| % Natural Cover in Upstream Drainage Area | 34.16 | % Tree Cover in ARA of Downstream Network | 79.1 |
| % Forested in Upstream Drainage Area | 30.84 | % Herbaceaous Cover in ARA of Upstream Network | 12.51 |
| % Agriculture in Upstream Drainage Area | 4.3 | % Herbaceaous Cover in ARA of Downstream Network | 15.73 |
| % Natural Cover in ARA of Upstream Network | 60 | % Barren Cover in ARA of Upstream Network | 0 |
| % Natural Cover in ARA of Downstream Network | 79.33 | % Barren Cover in ARA of Downstream Network | 0.1 |
| % Forest Cover in ARA of Upstream Network | 35 | % Road Impervious in ARA of Upstream Network | 3.65 |
| % Forest Cover in ARA of Downstream Network | 65.28 | % Road Impervious in ARA of Downstream Network | 0.6 |
| % Agricultral Cover in ARA of Upstream Network | 0 | % Other Impervious in ARA of Upstream Network | 5.72 |
| % Agricultral Cover in ARA of Downstream Network | 16.03 | % Other Impervious in ARA of Downstream Network | 0.78 |
| % Impervious Surf in ARA of Upstream Network | 7.58 | | |
| % Impervious Surf in ARA of Downstream Network | 0.71 | | |



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|---|--------------------------------------|--------|--------------------------------------|---|----------|-----------------|--|
| | Network, Sy | stem | Type and Cond | ition | | | |
| unctional Upstream Network (mi) 1.09 | | Upstre | Upstream Size Class Gain (#) | | | | |
| Total Functional Network (mi) | otal Functional Network (mi) 5432.11 | | # Dow | # Downsteam Natural Barriers | | | |
| Absolute Gain (mi) | 1.09 | | # Downstream Hydropower Da | | r Dams | 2 | |
| # Size Classes in Total Network | 6 | | # Down | # Downstream Dams with Passage | | 4 | |
| # Upstream Network Size Classes | rk Size Classes 1 | | # of Do | # of Downstream Barriers | | | |
| NFHAP Cumulative Disturbance I | ndex | | | High | | | |
| Dam is on Conserved Land | | | | No | | | |
| % Conserved Land in 100m Buffer of Upstream Network | | | | 0 | | | |
| % Conserved Land in 100m Buffer of Downstream Network | | | | 11.23 | | | |
| Density of Crossings in Upstream Network Watershed (#/m | | | 2) | 2.92 | | | |
| Density of Crossings in Downstre | am Network Watersh | ned (# | /m2) | 0.84 | | | |
| Density of off-channel dams in U | pstream Network Wa | atersh | ed (#/m2) | 0 | | | |
| Density of off-channel dams in D | ownstream Network | Wate | rshed (#/m2) | 0 | | | |
| | | Diadro | mous Fish | | | | |
| Downstream Alewife P | tential Current | | Downstream S | Downstream Striped Bass None Do | | umented | |
| Downstream Blueback P | otential Current | | Downstream Atlantic Sturgeon None Do | | None Doc | umented | |
| Downstream American Shad N | Ione Documented | | Downstream S | nstream Shortnose Sturgeon | | None Documented | |
| Downstream Hickory Shad N | Ione Documented | | Downstream A | American Eel | Current | | |
| Presence of 1 or More Downstre | eam Anadromous Spe | cies | Potential Curre | e | | | |
| # Diadromous Species Downstre | am (incl eel) | | 1 | | | | |
| Resident Fish | | | | Stream Health | | | |
| Barrier is in EBTJV BKT Catchment No | | No | Chesape | Chesapeake Bay Program Stream Health VERY_POO | | | |
| Barrier is in Modeled BKT Catchment (DeWeber) | | No | MD MBS | MD MBSS Benthic IBI Stream Health | | N/A | |
| Barrier Blocks an EBTJV Catchment Ye | | Yes | MD MBS | MD MBSS Fish IBI Stream Health | | N/A | |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) No | | No | MD MBS | MD MBSS Combined IBI Stream Health | | N/A | |
| Native Fish Species Richness (HUC8) 36 | | 36 | VA INSTA | VA INSTAR mIBI Stream Health | | Moderate | |
| · · · · · · · · · · · · · · · · · · · | | | [| | | | |
| # Rare Fish (HUC8) | , | 0 | PA IBI St | ream Health | | N/A | |
| # Rare Fish (HUC8) # Rare Mussel (HUC8) | , | 0 | PA IBI St | ream Health | | N/A | |

