Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_404 MOTOAKA DAM

Bay-wide Diadromous TierBay-wide Resident Tier5

Bay-wide Brook Trout Tier N/A

NID ID VA09510

State ID 404

River Name College Creek

Dam Height (ft) 24

Dam Type Earth

Latitude 37.2638

Longitude -76.7222

Passage Facilities None Documented

Passage Year N/A

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

HUC 12 College Creek

HUC 10 Lawnes Creek-James River

HUC 8 Lower James

HUC 6 James

HUC 4 Lower Chesapeake







| Landcover | | | | | | |
|---|-------|--|-------|--|--|--|
| NLCD (2011) | | Chesapeake Conservancy (2016) | | | | |
| % Impervious Surface in Upstream Drainage Area 17.1 | | % Tree Cover in ARA of Upstream Network | | | | |
| % Natural Cover in Upstream Drainage Area | 56.01 | % Tree Cover in ARA of Downstream Network | 59.94 | | | |
| % Forested in Upstream Drainage Area | 49.6 | % Herbaceaous Cover in ARA of Upstream Network | 8.49 | | | |
| % Agriculture in Upstream Drainage Area | 0.82 | % Herbaceaous Cover in ARA of Downstream Network | 13.22 | | | |
| % Natural Cover in ARA of Upstream Network | 72.85 | % Barren Cover in ARA of Upstream Network | 0 | | | |
| % Natural Cover in ARA of Downstream Network | 82.3 | % Barren Cover in ARA of Downstream Network | 0 | | | |
| % Forest Cover in ARA of Upstream Network | 51.13 | % Road Impervious in ARA of Upstream Network | 3.42 | | | |
| % Forest Cover in ARA of Downstream Network | 27.79 | % Road Impervious in ARA of Downstream Network | 1.82 | | | |
| % Agricultral Cover in ARA of Upstream Network | 1.59 | % Other Impervious in ARA of Upstream Network | 7.16 | | | |
| % Agricultral Cover in ARA of Downstream Network | 2.23 | % Other Impervious in ARA of Downstream Network | 2.15 | | | |
| % Impervious Surf in ARA of Upstream Network | 8.66 | | | | | |
| % Impervious Surf in ARA of Downstream Network | 2.19 | | | | | |



Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_404 MOTOAKA DAM

| | Network, Syste | m Type | e and Condition | | | |
|---|---------------------------------------|----------------|---|----------|-----------------|--|
| Functional Upstream Network | functional Upstream Network (mi) 5.71 | | Upstream Size Class Gain (#) | | 0 | |
| Total Functional Network (mi) | 49.68 | | # Downsteam Natural Barriers | | 0 | |
| Absolute Gain (mi) | 5.71 | | # Downstream Hydropower Dams | | 0 | |
| # Size Classes in Total Networ | k 3 | | # Downstream Dams with Passage | | 0 | |
| # Upstream Network Size Clas | ses 1 | | # of Downstream Barriers | | 0 | |
| NFHAP Cumulative Disturband | ce Index | | Very High | | | |
| Dam is on Conserved Land | | | Yes | | | |
| % Conserved Land in 100m Buffer of Upstream Network | | | 77.89 | | | |
| % Conserved Land in 100m Bu | iffer of Downstream Netwo | ork | 21.34 | | | |
| Density of Crossings in Upstre | am Network Watershed (#, | /m2) | 0.81 | | | |
| Density of Crossings in Downs | tream Network Watershed | (#/m2) | 0.99 | | | |
| Density of off-channel dams in | n Upstream Network Water | shed (# | ‡/m2) 0 | | | |
| Density of off-channel dams in | n Downstream Network Wa | itershe | d (#/m2) 0 | | | |
| | Dia | l | - Fi-l | | | |
| Downstream Alewife | Current | dromou | | None Dec | sumantas | |
| | | | · | | None Documented | |
| Downstream Blueback | Current | | | | cumented | |
| Downstream American Shad | None Documented | Dov | Downstream Shortnose Sturgeon None I | | cumented | |
| Downstream Hickory Shad | None Documented | Dov | Downstream American Eel Current | | | |
| Presence of 1 or More Downs | tream Anadromous Specie | s Cur ı | rent | | | |
| # Diadromous Species Downs | tream (incl eel) | 3 | | | | |
| Reside | ent Fish | | Strea | m Health | | |
| Barrier is in EBTJV BKT Catchment No | |) | Chesapeake Bay Program Stream Health FAIR | | n FAIR | |
| Barrier is in Modeled BKT Catchment (DeWeber) | |) | MD MBSS Benthic IBI Stream Health N/A | | N/A | |
| Barrier Blocks an EBTJV Catchment N | |) | MD MBSS Fish IBI Stream Health | | N/A | |
| Barrier Blocks a Modeled BKT Catchment (DeWeber) | |) | MD MBSS Combined IBI Stream Health | | N/A | |
| Native Fish Species Richness (HUC8) 6. | | | VA INSTAR mIBI Stream Health | | , High | |
| # Rare Fish (HUC8) | | | Š | | N/A | |
| # Rare Mussel (HUC8) | 1 | | | | , | |
| # Rare Crayfish (HUC8) | 0 | | | | | |
| | Ŭ | | | | | |

