Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: VA_1180 HOLMES RUN DAM #2A

Bay-wide Diadromous Tier 18
Bay-wide Resident Tier 14

Bay-wide Brook Trout Tier N/A

NID ID

Latitude

State ID 1180

River Name Holmes Run

Dam Height (ft) 18

Dam Type Gravity

Longitude -77.212

Passage Facilities None Documented

Passage Year N/A

Size Class 1b: Creek (3.861 - 38.61 sq mi)

38.8577

HUC 12 Cameron Run

HUC 10 Cameron Run-Potomac River

HUC 8 Middle Potomac-Anacostia-Occ

HUC 6 Potomac HUC 4 Potomac







| Landcover | | | | | | | |
|--|------------|--|-------|--|--|--|--|
| NLCD (2011) | | Chesapeake Conservancy (2016) | | | | | |
| % Impervious Surface in Upstream Drainage Area | 25.11 | % Tree Cover in ARA of Upstream Network | 43.85 | | | | |
| % Natural Cover in Upstream Drainage Area | 18.32 | % Tree Cover in ARA of Downstream Network | 62.65 | | | | |
| % Forested in Upstream Drainage Area | 14.3 | % Herbaceaous Cover in ARA of Upstream Network | 18.46 | | | | |
| % Agriculture in Upstream Drainage Area | 0 | % Herbaceaous Cover in ARA of Downstream Network | 11.23 | | | | |
| % Natural Cover in ARA of Upstream Network | 26.36 | % Barren Cover in ARA of Upstream Network | 2.26 | | | | |
| % Natural Cover in ARA of Downstream Network | 52.64 | % Barren Cover in ARA of Downstream Network | 0 | | | | |
| % Forest Cover in ARA of Upstream Network | 11.82 | % Road Impervious in ARA of Upstream Network | 19.5 | | | | |
| % Forest Cover in ARA of Downstream Network | 29.96 | % Road Impervious in ARA of Downstream Network | 6.28 | | | | |
| % Agricultral Cover in ARA of Upstream Network | 0 | % Other Impervious in ARA of Upstream Network | 10.89 | | | | |
| % Agricultral Cover in ARA of Downstream Network | (0 | % Other Impervious in ARA of Downstream Network | 8.57 | | | | |
| % Impervious Surf in ARA of Upstream Network | 22.39 | | | | | | |
| % Impervious Surf in ARA of Downstream Network | 10.23 | | | | | | |



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CFPPP Unique ID: VA_1180 HOLMES RUN DAM #2A

| Total Functional Network (mi) Absolute Gain (mi) A.85 # Downstream Hydropower Dams 0 # Size Classes in Total Network 2 # Downstream Dams with Passage 0 # Upstream Network Size Classes 1 # of Downstream Barriers 1 NFHAP Cumulative Disturbance Index Very High Dam is on Conserved Land in 100m Buffer of Upstream Network 26 Conserved Land in 100m Buffer of Downstream Network 37 Conserved Land in 100m Buffer of Downstream Network 38 Conserved Land in 100m Buffer of Downstream Network 48 Conserved Land in 100m Buffer of Downstream Network 49 Conserved Land in 100m Buffer of Downstream Network 40 Conserved Land in 100m Buffer of Downstream Network 40 Conserved Land in 100m Buffer of Downstream Network 40 Conserved Land in 100m Buffer of Downstream Network 40 Conserved Land in 100m Buffer of Downstream Network 40 Conserved Land in 100m Buffer of Downstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Downstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Upstream Network 40 Conserved Land in 100m Buffer of Ups | | Network, Syste | em Type | and Condition | | | |
|--|---|---------------------------|-------------------------|---|----------|-----------------|--|
| Absolute Gain (mi) 4.85 # Downstream Hydropower Dams 0 # Size Classes in Total Network 2 # Downstream Dams with Passage 0 # Upstream Network Size Classes 1 # of Downstream Barriers 1 NFHAP Cumulative Disturbance Index Very High Yes % Conserved Land in 100m Buffer of Upstream Network % Conserved Land in 100m Buffer of Downstream Network 8.8 % Conserved Land in 100m Buffer of Downstream Network 18.21 Density of Crossings in Upstream Network Watershed (#/m2) Density of Grossings in Upstream Network Watershed (#/m2) Density of off-channel dams in Upstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) ODensity of off-channel dams in Downstream Network Watershed (#/m2) Diadromous Fish Downstream Allewife Historical Downstream Striped Bass None Documented Downstream Atlantic Sturgeon None Documented Downstream Atlantic Sturgeon None Documented Downstream American Shad None Documented Downstream American Eel None Documented Downstream Eel None Docume | Functional Upstream Network (mi) 4.85 | | | Upstream Size Class Gain (#) | | 0 | |
| # Size Classes in Total Network 2 # Downstream Dams with Passage 0 # Upstream Network Size Classes 1 # of Downstream Barriers 1 NFHAP Cumulative Disturbance Index Very High Dam is on Conserved Land Yes % Conserved Land in 100m Buffer of Upstream Network 8.8 % Conserved Land in 100m Buffer of Downstream Network 18.21 Density of Crossings in Upstream Network Watershed (#/m2) 4.73 Density of Crossings in Downstream Network Watershed (#/m2) 1.3 Density of off-channel dams in Upstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream 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 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 Historical # Diadromous Species Downstream (incl eel) 0 Resident Fish Stream Health Poor Barrier is in EBTJV BKT Catchment No MD MBSS Benthic IBI Stream Health Poor MD MBSS Fish IBI Stream Health Poor MD MBSS Fish IBI Stream Health Poor MD MBSS Fish IBI Stream Health Poor Native Fish Species Richness (HUC8) 62 VA INSTAR milBI Stream Health Very High # Rare Fish (HUC8) 1 PA IBI Stream Health Very High # Rare Fish (HUC8) 1 PA IBI Stream Health Very High # Rare Fish (HUC8) 1 PA IBI Stream Health N/A | Total Functional Network (mi) 15.79 | | | # Downsteam Natural Barriers | | 0 | |
| # Upstream Network Size Classes 1 # of Downstream Barriers 1 NFHAP Cumulative Disturbance Index Very High Dam is on Conserved Land Yes % Conserved Land in 100m Buffer of Upstream Network 8.8 % Conserved Land in 100m Buffer of Downstream Network 18.21 Density of Crossings in Upstream Network Watershed (#/m2) 4.73 Density of Crossings in Downstream Network Watershed (#/m2) 1.3 Density of off-channel dams in Upstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Density of off-channel dams in Downstream Network Watershed (#/m2) 0 Downstream Alewife Historical Downstream Striped Bass None Documented Downstream American Shad None Documented Downstream Atlantic Sturgeon None Documented Downstream Hickory Shad None Documented Downstream American Eel None Documented Presence of 1 or More Downstream Anadromous Species Historical # Diadromous Species Downstream (incl eel) 0 Resident Fish Barrier is in EBTJV BKT Catchment (Incl eel) 0 Resident Fish Stream Health Poor Barrier Blocks an EBTJV Catchment No MD MBSS Benthic IBI Stream Health Poor Barrier Blocks an Bodeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health Poor Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health Poor Native Fish Species Richness (HUC8) 62 VA INSTAR mIBI Stream Health Very High # Rare Fish (HUC8) 1 PA IBI Stream Health N/A | Absolute Gain (mi) 4.85 | | | # Downstream Hydropower Dams | | 0 | |
| NPHAP Cumulative Disturbance Index Dam is on Conserved Land % Conserved Land in 100m Buffer of Upstream Network % Conserved Land in 100m Buffer of Downstream Network 18.21 Density of Crossings in Upstream Network Watershed (#/m2) Density of Crossings in Downstream Network Watershed (#/m2) Density of off-channel dams in Upstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) Density of off-channel dams in Downstream Network Watershed (#/m2) Downstream Alewife Downstream Alewife Downstream Alewife Downstream American Shad None Documented Downstream American Shad None Documented Downstream Hickory Shad None Documented Downstream American Eel None Documented Presence of 1 or More Downstream Anadromous Species # Diadromous Species Downstream (incl eel) Resident Fish Barrier is in EBTJV BKT Catchment No Chesapeake Bay Program Stream Health Poor Barrier Blocks an EBTJV Catchment (DeWeber) No MD MBSS Fish IBI Stream Health Poor Barrier Blocks a Modeled BKT Catchment (DeWeber) No MD MBSS Combined IBI Stream Health Poor Native Fish Species Richness (HUC8) # Rare Fish (HUC8) 1 PA IBI Stream Health N/A # Rare Fish (HUC8) | # Size Classes in Total Network 2 | | | # Downstream Dams with Passage | | 0 | |
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| Barrier Blocks a Modeled BKT Catchment (DeWeber) No Native Fish Species Richness (HUC8) # Rare Fish (HUC8) # Rare Mussel (HUC8) MD MBSS Combined IBI Stream Health Very High PA IBI Stream Health N/A | Barrier is in Modeled BKT Catchment (DeWeber) | |) | MD MBSS Benthic IBI Stream Health Poor | | Poor | |
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| # Rare Fish (HUC8) 1 PA IBI Stream Health N/A # Rare Mussel (HUC8) 5 | Barrier Blocks a Modeled BKT Catchment (DeWeber) | |) | MD MBSS Combined IBI Stream Health P | | Poor | |
| # Rare Mussel (HUC8) 5 | Native Fish Species Richness (HUC8) | | ! | VA INSTAR mIBI Stream Health | | Very High | |
| | # Rare Fish (HUC8) | 1 | | PA IBI Stream Health | | N/A | |
| # Rare Crayfish (HUC8) 0 | # Rare Mussel (HUC8) | | | | | | |
| | # Rare Crayfish (HUC8) | 0 | | | | | |

