

## Chesapeake Fish Passage Prioritization - Dam Fact Sheet

CFPPP Unique ID: **VA\_66**

### DEEP RUN FARM DAM

|                           |                                 |
|---------------------------|---------------------------------|
| Bay-wide Diadromous Tier  | 6                               |
| Bay-wide Resident Tier    | 6                               |
| Bay-wide Brook Trout Tier | N/A                             |
| NID ID                    | VA11315                         |
| State ID                  | 66                              |
| River Name                | Deep Run                        |
| Dam Height (ft)           | 40                              |
| Dam Type                  | Gravity                         |
| Latitude                  | 38.4906                         |
| Longitude                 | -78.2218                        |
| Passage Facilities        | None Documented                 |
| Passage Year              | N/A                             |
| Size Class                | 1a: Headwater (0 - 3.861 sq mi) |
| HUC 12                    | Deep Run-Robinson River         |
| HUC 10                    | Robinson River                  |
| HUC 8                     | Rapidan-Upper Rappahannock      |
| HUC 6                     | Lower Chesapeake                |
| HUC 4                     | Lower Chesapeake                |



### Landcover

| NLCD (2011)                                       |       | Chesapeake Conservancy (2016)                   |       |
|---|-------|---|-------|
| % Impervious Surface in Upstream Drainage Area    | 0.01  | % Tree Cover in ARA of Upstream Network         | 60.01 |
| % Natural Cover in Upstream Drainage Area         | 92.33 | % Tree Cover in ARA of Downstream Network       | 55.58 |
| % Forested in Upstream Drainage Area              | 84.91 | % Herbaceous Cover in ARA of Upstream Network   | 14.72 |
| % Agriculture in Upstream Drainage Area           | 7.3   | % Herbaceous Cover in ARA of Downstream Network | 41.39 |
| % Natural Cover in ARA of Upstream Network        | 87.05 | % Barren Cover in ARA of Upstream Network       | 0     |
| % Natural Cover in ARA of Downstream Network      | 41.91 | % Barren Cover in ARA of Downstream Network     | 0     |
| % Forest Cover in ARA of Upstream Network         | 50.9  | % Road Impervious in ARA of Upstream Network    | 0     |
| % Forest Cover in ARA of Downstream Network       | 37.83 | % Road Impervious in ARA of Downstream Network  | 0.93  |
| % Agricultural Cover in ARA of Upstream Network   | 12.65 | % Other Impervious in ARA of Upstream Network   | 0.73  |
| % Agricultural Cover in ARA of Downstream Network | 51.17 | % Other Impervious in ARA of Downstream Network | 0.87  |
| % Impervious Surf in ARA of Upstream Network      | 0.01  |   |       |
| % Impervious Surf in ARA of Downstream Network    | 0.76  |   |       |

Metric descriptions can be found at:

[http://52.53.143.233/chesapeake-dev/plugins/barrier-prioritization-proto2/images/Metric\\_Glossary.pdf](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)                                   | 1.18     | Upstream Size Class Gain (#)   | 0 |
| Total Functional Network (mi)                                      | 541.97   | # Downstream Natural Barriers  | 0 |
| Absolute Gain (mi)   | 1.18     | # Downstream Hydropower Dams   | 0 |
| # Size Classes in Total Network                                    | 4        | # Downstream Dams with Passage | 0 |
| # Upstream Network Size Classes                                    | 1        | # of Downstream Barriers       | 1 |
| NFHAP Cumulative Disturbance Index                                 | Moderate |                                |   |
| Dam is on Conserved Land   | No       |                                |   |
| % Conserved Land in 100m Buffer of Upstream Network                | 0        |                                |   |
| % Conserved Land in 100m Buffer of Downstream Network              | 10.22    |                                |   |
| Density of Crossings in Upstream Network Watershed (#/m2)          | 0        |                                |   |
| Density of Crossings in Downstream Network Watershed (#/m2)        | 0.87     |                                |   |
| 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           | Current         |
| One or More DS Anadromous Species | Historical      | # Diadromous Sp Dnstrm (incl eel) | 1               |

## Resident Fish and Rare Species

|   |     |
|---|-----|
| Barrier is in EBTJV BKT Catchment   | No  |
| Barrier is in Modeled BKT Catchment (DeWeber)   | No  |
| Barrier Blocks an EBTJV Catchment   | Yes |
| Barrier Blocks a Modeled BKT Catchment (DeWeber)  | No  |
| Native Fish Species Richness (HUC8)   | 38  |
| # Rare Fish (HUC8)  | 0   |
| # Rare Mussel (HUC8)  | 4   |
| # Rare Crayfish (HUC8)  | 0   |
| Globally rare or fed listed fish/mussel sp HUC12  | No  |
| Globally rare or fed listed fish/mussel sp in upstream or downstream functional network | No  |

## Stream Health

|                                      |           |
|--------------------------------------|-----------|
| Chesapeake Bay Program Stream Health | EXCELLENT |
| 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         | High      |
| PA IBI Stream Health                 | N/A       |

|  |    |
|--|----|
| Rare fish or mussel sp in HUC12                                  | No |
| Rare fish or mussel in upstream or downstream functional network | No |

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