The Nature Conservancy
Protecting nature. Preserving life.™

# Penobscot Habitat Blueprint



## GLOSSARY & METRIC DESCRIPTIONS

This glossary was developed to support the interpretation of the Penobscot Habitat Blueprint web map & tool

# Tiered Results (5% bins)



- Analysis results grouped into 20 bins where each bin has 5% of the dams in the analysis area.
- These are the results that should be used for dam assessments

# Sequential Rank

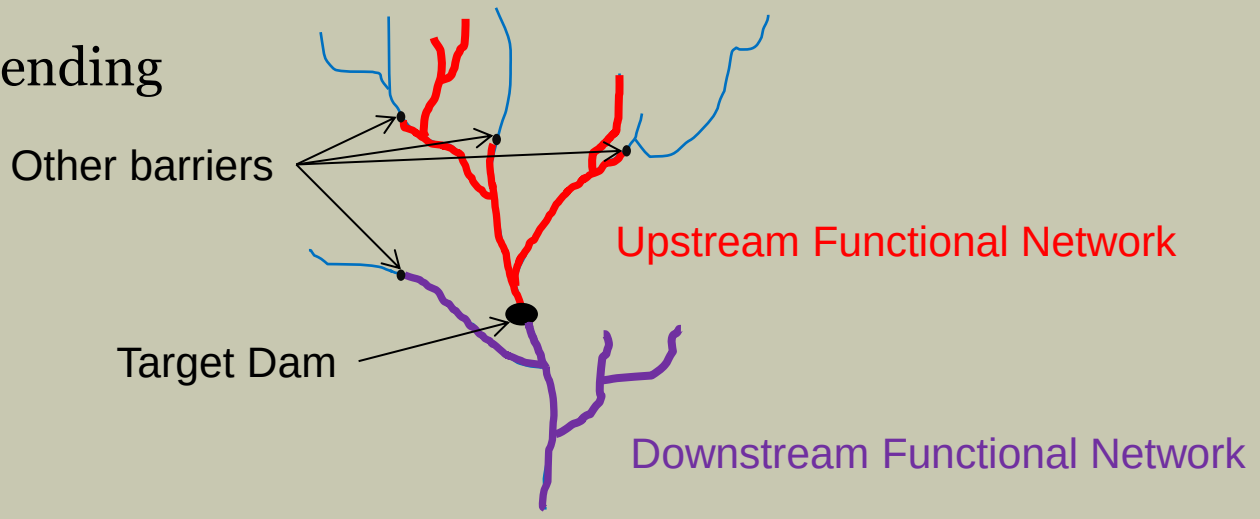


- The sequential list of dams produced by the analysis.
- This list should be used with extreme caution:  the precision with which GIS can calculate metrics and rank dams is not necessarily indicative of ecological differences
- The Tiered Results (5% bins) should be used to assess dams for their potential ecological benefit

# Upstream Functional Network Length



- Category:  Connectivity Improvement
- Length of the functional network upstream of a barrier.  The functional network is defined by those sections of river that a fish could theoretically access from any other point within that functional network.  Its terminal ends are barriers, headwaters, and/or the river mouth.
- Unit: meters
- Sort Order: Descending



# Downstream Barrier Count



- Category:  Connectivity Status
- The number of barriers downstream of a given barrier
- Includes natural waterfalls, which are included in network generation
- Does not include barriers excluded from network generation
- Unit: #
- Sort Order: Ascending

# Absolute Gain



- Category:  Connectivity Improvement
- This metric is the minimum of the two functional networks of a barrier. For example if the upstream functional network was 10 kilometers and downstream functional network was 5 kilometers, then the Absolute Gain will be 5 kilometers.
- Unit: meters
- Sort Order: Descending

# Number of Natural Barriers on Downstream Flowpath



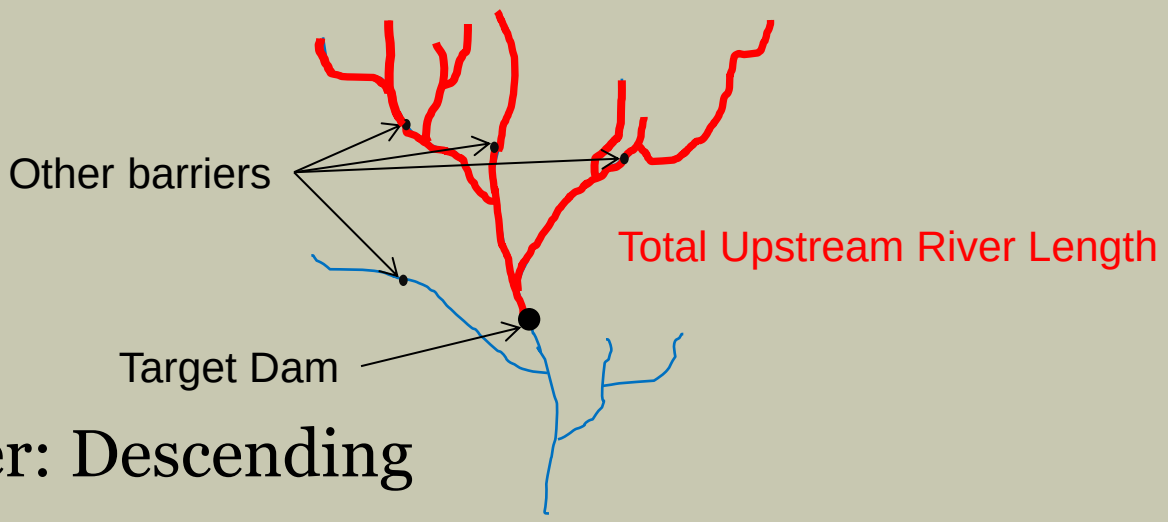
- Category:  Connectivity Status
- Count of natural barriers (e.g. waterfalls) on downstream flowpath of a barrier
- Unit: #
- Sort Order: Ascending

# One or More of the Next Upstream Barriers is a Natural Barrier

# Total Upstream Network Length



- Category:  Connectivity Status
- Total length of river network upstream of a given barrier, regardless of any upstream barriers.
- Unit: meters




- Sort Order: Descending

# River Size Class



- Category:  Size or System Type
- River size class based on NE Aquatic Habitat Classification.

1a: Headwaters (<3.861 sq.mi.)

1b: Creeks (>= 3.861<38.61 sq.mi.)

2:  Small River (>=38.61<200 sq. mi.)

3a: Medium Tributary Rivers (>=200<1000 sq.mi.)

3b: Medium Mainstem Rivers (>=1000<3861 sq.

4:  Large Rivers (>=3861 < 9653 sq.mi.)

5:  Great Rivers (>=9653 sq.mi.)

*(measure = upstream drainage area)*

# # miles of brook trout habitat in US network (medium, high, very high)

# # miles of brook trout habitat in US + DS networks (medium, high, very high)

# Medium, High, or Very High brook trout habitat upstream OR downstream of barrier

# High or Very High quality brook trout habitat upstream OR downstream of barrier

# Very High quality brook trout habitat upstream OR downstream of barrier

# Heritage Fish Pond Barrier

# EBTJV Wild Brook Trout Patch

# Smelt spawning sites rank in upstream functional network

# Barrier to Sea Run Brook Trout

# Upstream acres of alewife ponds

# Aquifer OR coarse sediments in U/S or D/S functional networks or both

# Calcareous / moderately calcareous geology in U/S or D/S networks or both

# Barrier is in a Salmon Critical Habitat HUC10

# DMR Salmon Priority (Tier 1, 2, 3) from HUC12

# Summed salmon habitat units in US Functional network

# Summed salmon parr productivity in US Functional network

# Invasive species on one side of a barrier and not the other

# Invasive species on one side of a barrier and not the other - Confirmed only

# # of Invasive species that are block - Confirmed only