

North Atlantic and Midwest Aquatic Habitat Connectivity and Infrastructure Resilience:

Workshop on Prioritization Approaches

John Heinz National Wildlife Refuge at Tinicum

Wednesday, January 6 to Friday, January 8, 2016

AGENDA

(Draft from Dave Case, Version, November 18, 2015)

Meeting Purpose/Objectives

1. Summarize and compare available aquatic barrier prioritization/optimization decision support tools and frameworks.
 - a. Document the intended uses for and limitations of various approaches.
 - i. Detail key assumptions for each approach
 - b. Identify circumstances/use cases which might drive users towards a given approach.
 - c. Develop a manuscript outline and approach on available aquatic barrier prioritization/optimization approaches.
2. Summarize and compare available approaches to assess geomorphic and hydraulic vulnerability, potential disruption to transportation systems and emergency services, and infrastructure optimization modeling.
3. Identify mutually beneficial activities that can improve infrastructure resilience and aquatic habitat conservation.

Day 1

1:00 Welcome, introductions and agenda review—Brad Potter/Dave Case

1:30 Comparing infrastructure assessment and prioritization approaches

Session outcome: Participants more informed about available approaches

A series of presentations followed by Q&A/discussion regarding:

- Geomorphic and hydraulic vulnerability
- Potential disruption to transportation systems and emergency services
- Optimization modeling with regard to infrastructure
- Others?

Advance work: Engage with infrastructure resilience partners and identify approaches and refine the agenda/workshop in this area.

2:30 Break

3:00 Continue 1:00 p.m. session

4:40 Recap and review agenda for Day 2—Dave Case

5:00 Adjourn

Group Dinner TBD

Day 2

8:00 Feedback from Day 1, agenda review—Dave Case

8:15 Aquatic barrier prioritization/optimization decision support tools and frameworks

Session outcome: Participants more informed about available aquatic barrier decision support tools and their potential use.

At the workshop, presentations on each of the 4 current Decision Support Tool (DST) tools will be made by invited presenters. Each presenter will address the intended use, key assumptions, and associated limitations for the tool. Brief, full group Q&A will follow each presentation for that DST.

Advance work: In advance of the workshop, presenters will fill out a matrix to summarize key elements for each tool:

- Intended use/purpose and what the tool should not be used for
- Key assumptions
- User groups best served by tool
- Limitations
- Data requirements/type of information needed
- Variables and resolution

This summary matrix along with links to each of the tools will be made available to workshop participants in advance.

Presentation 1

Presentation 2

9:30 Break

9:45 Presentation 3

Presentation 4

11:00 Group discussion regarding approaches... Give participants additional time to share their views on the tools.

Noon Lunch on site

1:00 Identify and discuss scenarios/use cases applicable for each DST

Session outcome: Discussion leading to participant consensus on specific recommendations

Advance work: Presenters develop a suite of scenarios for specific use cases

3:00 Break

3:20 Aquatic barrier DST manuscript development

Session Outcome: Consensus on an outline and approach for drafting a manuscript for publication.

A draft outline will be reviewed with the entire group and adjusted through consensus. It may be necessary to assign a subgroup of participants to develop further details during or after the workshop. Those details will include specific assignments, potential publications, assignments and schedule. Also, we will need to determine how to share the resulting information while the manuscript is in development.

Advance work: A draft outline will be drafted in advance of the workshop, but not distributed for participant review. The outline also may be adjusted in the evening following Day 1 discussion. The outline will:

- Clearly define “lead authors, co-authors and contributors”
- List the sections and content of each
- Provide preliminary ideas schedule and potential publications

4:40 Recap and review agenda for Day 3—Dave

5:00 Adjourn

Dinner on your own

Day 3

8:00 Feedback from Day 2, agenda adjustments—Dave Case

8:15 Improving infrastructure resilience and aquatic habitat conservation

Session outcome: Identification (and prioritization?) of activities that provide mutual benefits to infrastructure resilience and aquatic habitat conservation.

Start with roundtable discussions. Each participant will come prepared with ideas to explore regarding mutually beneficial activities. A list of activities will be synthesized from the discussion. As appropriate the list will be fine-tuned by the group and prioritized (?).

Potential categories for roundtable discussions include:

- Infrastructure assessments and protocols
- Databases
- Prioritization approaches
- Leveraging resources
- Infrastructure design that serves both purposes

Advance work: Participants must come prepared with ideas regarding mutually beneficial activities.

10:00 Break

10:20 Continue 8:20 session

11:00 Participant feedback

Survey and discussion to:

- Assess workshop content and process effectiveness
- Usefulness of workshop to infrastructure participants
- How best to report-out/communicate workshop results

11:30 Next steps

Review and finalize details on next steps to advance important opportunities for collaboration and manuscript generation

11:45 Wrap-up—Brad Potter

Noon Adjourn