

## SLELO PRISM Partners Share These Goals:

### PREVENTION

Prevent the introduction of invasive species into the SLELO PRISM region.

### EARLY DETECTION & RAPID RESPONSE

Detect new and recent invaders and rapidly respond to eliminate all individuals within a specific area.

### COOPERATION

Share resources, expertise, personnel, equipment and information.

### INFORMATION MANAGEMENT

Collect, utilize, and share information regarding surveys, infestations, control methods, monitoring and research.

### CONTROL

Control invasive species infestations by using best management practices, methods and techniques to include:

*ERADICATION* - Eliminate all individuals and the seed bank from an area.

*CONTAINMENT* - Reduce the spread of established infestations.

*SUPPRESSION* - Reduce the density but not necessarily the total infested area.

### RESTORATION

Develop and implement effective restoration methods for areas that have been degraded by invasive species and where suppression or control has taken place.

### EDUCATION / OUTREACH

Increase public awareness and understanding of invasive species issues through volunteer monitoring, citizen science and community outreach.



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## FOR MORE INFORMATION CONTACT:

St. Lawrence Eastern Lake Ontario  
Partnership for Regional Invasive Species  
Management

### SLELO PRISM

C/O *The Nature Conservancy*  
(315) 387-3600 x 7725  
[www.sleloinvasives.org](http://www.sleloinvasives.org)

### Get Involved

Report Invasive Species Observations at  
[www.imapinvasives.org](http://www.imapinvasives.org)

Join our invasive species **Volunteer  
Surveillance Network (VSN)**.

For details, contact

[megan.pistolese@tnc.org](mailto:megan.pistolese@tnc.org)

Join our listserv and get notifications for  
upcoming trainings and workshops.

### To join follow these steps:

- **Email** [cce-slelo-l-request@cornell.edu](mailto:cce-slelo-l-request@cornell.edu)
- **Type** “join” in subject space
- **Send** a blank email body

Cover photo: S. Pothoven, GLERL,  
[http://www.glerl.noaa.gov/pubs/photogallery/Waterlife/index\\_3.html](http://www.glerl.noaa.gov/pubs/photogallery/Waterlife/index_3.html)  
Inside right column top left photo: Ontario Ministry of Natural  
Resources, bugwood.org. Inside right column top right  
photo: sleloinvasives.org. Swarm Photo and Telson photo: Great Lakes  
Aquatic Nonindigenous Species Information System,  
[http://www.glerl.noaa.gov/res/Programs/glansis/hemi\\_brochure.html](http://www.glerl.noaa.gov/res/Programs/glansis/hemi_brochure.html)

## What You Should Know About

### Bloody Red Shrimp (*Hemimysis anomala*)



St. Lawrence Eastern Lake Ontario Partnership for Regional Invasive Species Management

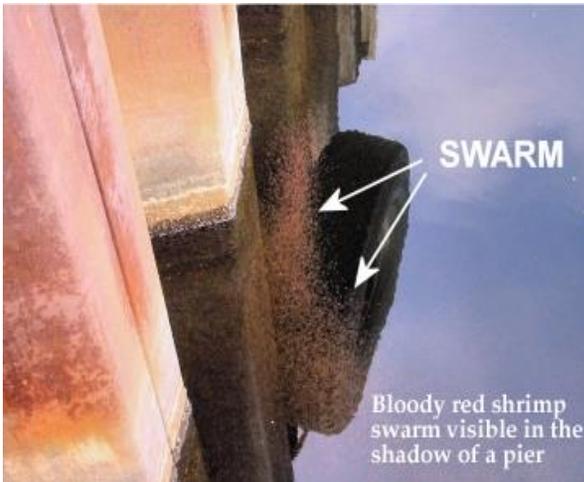
SLELO PRISM

SLELO PRISM  
“Teaming up to stop  
the spread of  
invasive species”

## What are Bloody Red Shrimp?

Bloody red shrimp (*Hemimysis anomala*) are crustaceans native to bodies of freshwater in Eurasia, and are invasive in North America. Bloody red shrimp were likely introduced to the U.S. via ballast water of oceanic ships. The first sighting in Lake Ontario was in 2006. They have been detected in all of the Great Lakes except Lake Superior.

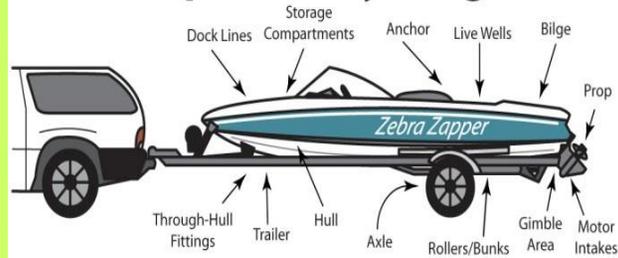
Currently the impacts of *Hemimysis* are not well understood. However, because they eat tiny plants and animals such as plankton and insect larvae, there could be impacts on the native food chain reducing food availability for young native fish. Furthermore, bloody red shrimp populations can grow quickly, sometimes to densities of 500 shrimp/cubic meter. Below is a photo that demonstrates how dense bloody red shrimp swarms can become.



## Steps You Can Take to Stop the Spread of Bloody Red Shrimp:

Bloody red shrimp have a history of invading canals, streams, lakes and reservoirs throughout Europe. Therefore, they are considered a 'high-risk' invader of inland lakes in the Great Lakes region. You can help stop the spread of bloody red shrimp by practicing the **Clean, Drain, Dry Protocol** and keeping your watercraft and equipment clean prior to entering and after leaving a body of water.

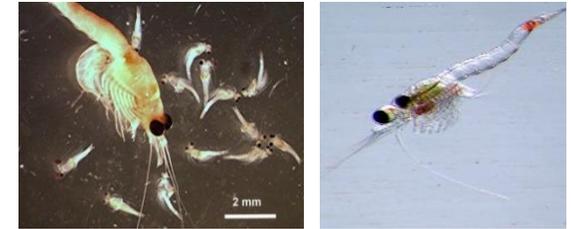
Before leaving and before launching...  
**inspect everything!**



For more information on proper precautions visit the Stop Aquatic Hitchhikers Campaign at [www.protectyourwater.net](http://www.protectyourwater.net)

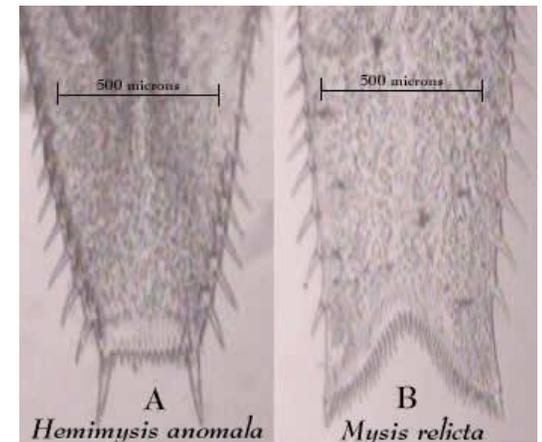
## Bloody Red Shrimp Identification:

**Description:** Mature bloody red shrimp reach 6-13 mm in length, with females being slightly larger than males. They are ivory-yellow in color or translucent, but have red pigmentation on their dorsal and posterior section.



### Distinguishing Features:

Bloody red shrimp can be distinguished from other mysid species, such as the opossum shrimp, by comparing the posterior section (telson). Bloody red shrimp have a long sharply pointed spine at both corners of the telson (A) compared to the more forked telson of opossum shrimp (B).



**A**  
*Hemimysis anomala*      **B**  
*Mysis relicta*

Telson or 'tail' of the invasive bloody red shrimp (A) and native opossum shrimp (B).