

# Biosecurity for boat users

(version 3: 17/12/10)

## Interim guidance – avoiding the spread of the invasive shrimp *Dikerogammarus villosus* on the clothes and equipment of boat, canoe and kayak users.

This guidance sets out simple instructions for disinfection measures to prevent the accidental transfer of *Dikerogammarus villosus* from sites that have either been identified as containing the invasive shrimp or have a high risk of doing so.

This guidance should be adopted by all users of water craft, which are generically referred to as 'boats' within this guidance.

### Principles

- Boat users should familiarise themselves with [what the shrimp looks like](#) and how they can avoid spreading it.
- There is no evidence that boat users have spread the shrimp in England and Wales, but there is a real risk that careless behaviour may do so, harming the environment and potentially damaging the reputation of the sport.
- Submerged artificial surfaces, particularly ropes and rubber surfaces, are very attractive to the shrimp and pose a particular risk of contamination.

### Actions

- Adequate signage or guidance should be in place, making all boat users aware of the risk, and providing advice on recognising the shrimp and how to prevent its spread.
- Ideally, all cleaning and inspection operations should be supervised by a volunteer or member of staff.
- Biofouling must be thoroughly removed from all hulls and other submerged surfaces before transfer to another site. This is particularly important if the biofouling includes zebra mussels, which are another damaging non-native species and also harbour the shrimp.
- Ideally, access and egress for boats should be limited, preferably to a single point at the site. Boat users should log in and out, confirming that they have cleaned and inspected their equipment.

- There are diseases and other invasive species (including plants) that can be spread by contaminated clothes and equipment, so good biosecurity when visiting a site (even if it already has the *Dikerogammarus* shrimp) is important, too.
- If you are visiting a site where an invasive non-native species is known to be present, you must ensure you don't spread it. Failure to do so risks prosecution under the Wildlife & Countryside Act, 1981.
- The risk can be reduced by reducing the contact time in which equipment is exposed to the water. This is particularly important for items such as trailers, which have cavities that may retain water and be hard to inspect. If possible, trailers and launching trolleys should be provided at the site and used in preference to personal equipment.
- Areas around hard substrates, such as concrete are particularly likely to support abundant shrimp populations.
- Any water that collects in bilges or inside kayaks and canoes must be completely emptied before leaving the site.
- Water-cooled engines must be washed through with tap water to ensure the system does not harbour shrimp.

### Disinfecting equipment: interim advice

- If facilities allow, equipment can be hosed down or pressure-washed to remove shrimps. The washings should be contained and not allowed to enter any watercourse or drainage system currently free from *Dikerogammarus villosus*.
- The current best method for preventing spread is to thoroughly dry clothing and equipment. The shrimp can survive up to 5 days in damp conditions, so the drying process must be thorough.
- Particular attention must be paid to areas that retain water, remain damp or are hard to inspect. Trampolines also require careful cleaning and inspection. All biofouling must be completely removed and disposed of without contaminating watercourses.
- We are working to fully ascertain how effective disinfectants are and how they can be best used for biosecurity purposes. While we are currently uncertain about the effectiveness of dipping equipment in disinfectants to kill the shrimp, it is, in any case, good practice for biosecurity. All disinfectants must be used and disposed of following the manufacturer's instructions particularly those regarding Health and Safety.

### Useful links

For general information on recognising and managing *Dikerogammarus villosus* and other invasive non-native species, see the Non-Native Species Secretariat website

<https://secure.fera.defra.gov.uk/nonnativespecies/alerts/index.cfm?id=3>

For specific news and advice for boat users see the Royal Yachting Association website <http://www.rya.org.uk/Pages/Home.aspx>

If you believe you have found a record for *Dikerogammarus villosus* at a new site, send an image to [alert\\_nonnative@ceh.ac.uk](mailto:alert_nonnative@ceh.ac.uk)

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