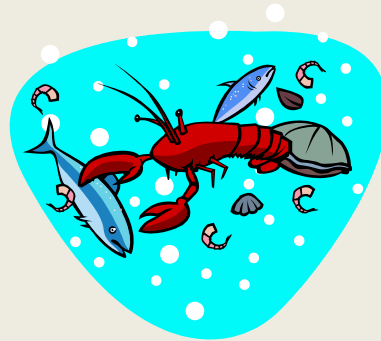


Biosecurity Planning and Data Capture

DR CHRIS HORRILL: chris@rafts.org.uk

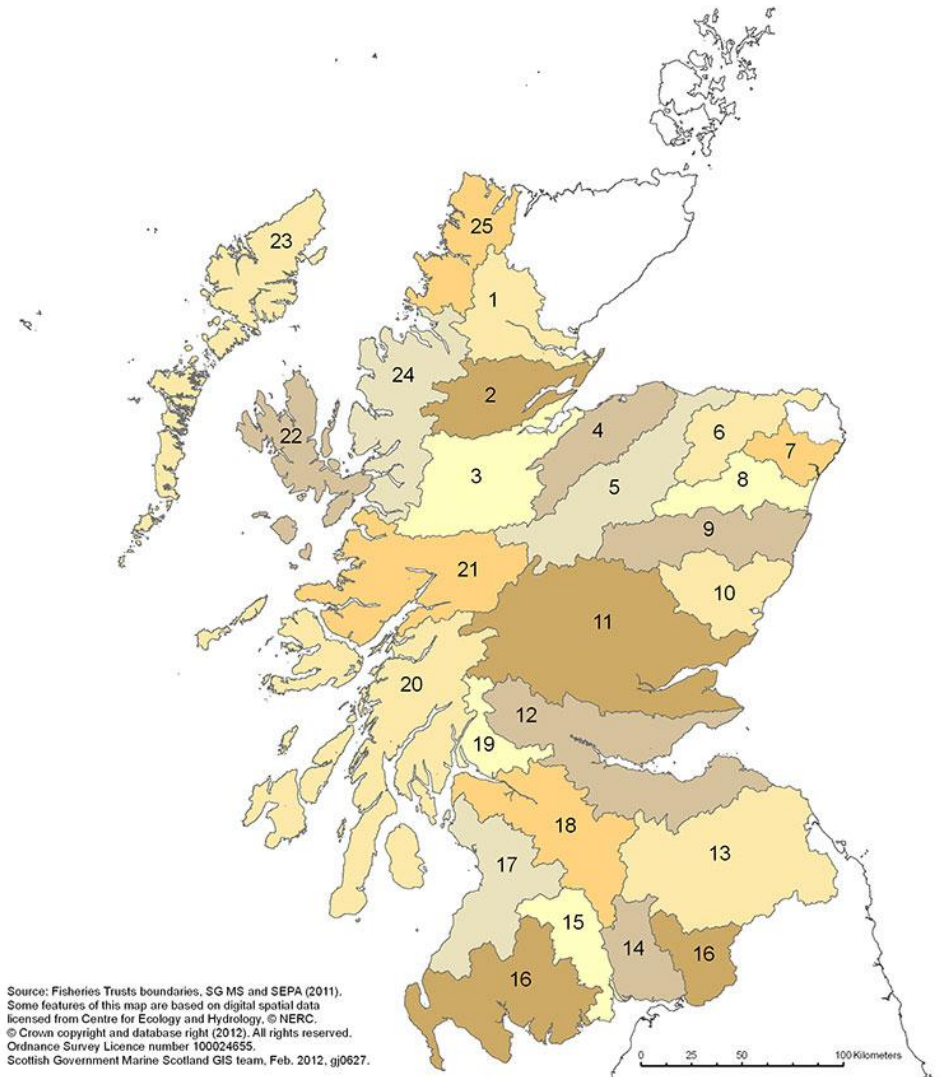


Biosecurity Planning

- Planning 2008-2011
- 25 Plans linked to RBMP
- Implementation involves actions for:
 - Prevention
 - Rapid response
 - Eradication & control
- Adaptive management

1. Kyle of Sutherland Fisheries Trust
2. Cromarty Firth Fisheries Trust
3. Ness & Beauly Fisheries Trust
4. Findhorn, Nairn & Lossie Trust
5. Spey Foundation
6. Deveron, Bogie & Isla Rivers Charitable Trust
7. River Ythan Trust
8. River Don Trust
9. River Dee Trust
10. The Eskes Rivers & Fisheries Trust
11. Tay Foundation
12. Forth Fisheries Trust
13. Tweed Foundation
14. River Annan Trust

15. Nith Catchment Fisheries Trust
16. Galloway Fisheries Trust
17. Ayrshire Rivers Trust
18. Clyde River Foundation
19. Loch Lomond Fisheries Trust
20. Argyll Fisheries Trust
21. Lochaber Fisheries Trust
22. Skye Fisheries Trust
23. Outer Hebrides Fisheries Trust
24. Wester Ross Fisheries Trust
25. West Sutherland Fisheries Trust



Adaptive management

- Monitoring and evaluation of actions:
 - Extent
 - Effectiveness
 - Feedback into management
 - Cost effectiveness of management regimes
 - Cost benefit
 - Comparison of control methods
- Identification of good practice
- Dissemination of good practice
- Linking research to management
 - Ecology
 - Volunteer engagement and retention



Clearance of *Rhododendron ponticum* (top) resulted in the re-establishment of a spawning tributary for salmonids on a hydro modified river.



Data Management

- Two Components
 - Recording of Actions
 - Measuring outcome/impact
- Biodiversity Action Reporting System
 - Developed protocols for INNS action
 - ukbars.defra.gov.uk/mapping/actionmap
 - Cromarty Firth & Galloway



American mink and kittiwake chick (Terje Koolas)

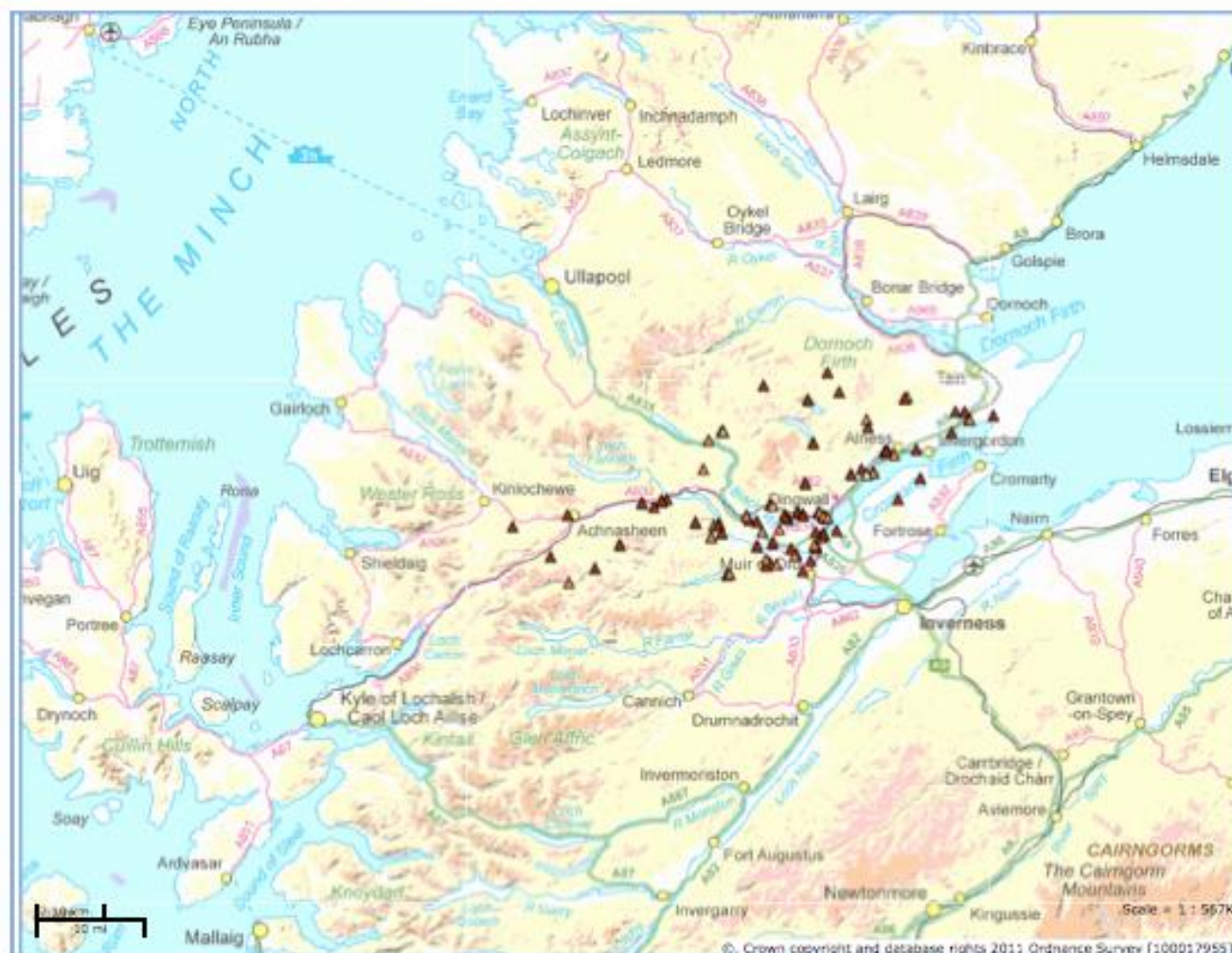
Treatment of *Gyrodactylus salaris*. Vefsna River, Norway)





Biodiversity Action Reporting System

[Login / Register](#)

[Home](#) [About](#) [Action Maps](#) [Action Reports](#) [Help](#) [Contact Us](#)


Mapped Actions

Action Title: [Balnogown weirs engineering report](#)

Owning Organisation: Cromarty Firth Fisheries Trust

Description: Engineering survey and report on three weirs on the Balnagown which act as pa...

Action Status: Completed

Date: 19/03/2009 - 19/10/2009

Action Type: Survey or monitoring

Biodiversity Objective: To gather new data to provide a baseline before carrying out management or other activity

Biodiversity Feature: Salmonidae

Amount: 3 Instances

Action Title: [Japanese knotweed control](#)

Owning Organisation: Cromarty Firth Fisheries Trust

Description: Control Japanese knotweed by autumn spraying and stem injection with glyphosa...

Action Status: Underway

Date: 26/03/2010 - 26/03/2015

Action Type: Species management

Biodiversity Objective: To control invasive or other non-native species

Biodiversity Feature: Japanese Knotweed

Amount: 1.5 Linear Kilometres (km)

Action Title: [Giant Hogweed control](#)

Owning Organisation: Cromarty Firth Fisheries Trust

Description: Control of giant hogweed by spraying with glyphosate spring and summer or by ...

Action Status: Underway

Date: 26/03/2010 - 26/03/2015

Action Type: Species management

Biodiversity Objective: To control invasive or other non-native species

10 km
10 mi

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INNS Data Management System

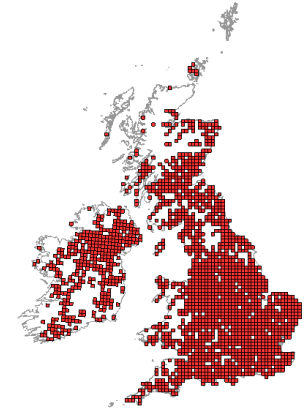
- Dedicated to INNS management
- Three components
 - Web page
 - PDA survey data system
 - Desktop
- Interactive
- Easy to use
- Efficient
- Query system to export data
 - SEPA WFD Classification
 - Local recording centres



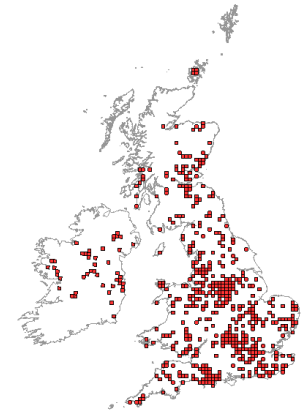
Challenges

- How do we keep people/organisations engaged?
 - Relevant
 - Interactive reporting
 - Natural language generation
 - Empowerment: Give the tools
 - Demonstrating impact and response
 - Incorporation of Apps for phones

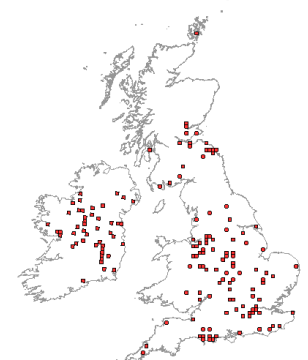
2012



2016



2024




2028

Challenges

- Two options for wider development
- Do we develop a National System?
 - Will it be based SE Web
 - Who will coordinate SNH-SEPA-Other?
 - Who will fund and maintain?
- Use UK systems
 - How do we influence
 - How do we make it relevant to us

Invasive Species

15/04/2013 18:46



RAFTS RAFTS Invasive Species Site Record
INVASIVE SPECIES & BIOSECURITY PROGRAMME

Welcome to the reporting page of the Rivers and Fisheries Trusts of Scotland Biosecurity and Invasive Species Programme. At present this reporting page is only designed to collect data within the boundaries of the areas of operation of the Argyll, Galloway, Esk Rivers and Cromarty Firth Fisheries Trusts, Ayrshire Rivers Trust and Tweed Forum. The boundaries of these areas are shown in yellow on the map below.

Report Your Invasive Species Sighting in THREE Easy Steps

1. Register

Register with us. [Report a Sighting now.](#)

2. Plot

Plot your sighting on our map. [Report a Sighting now](#)

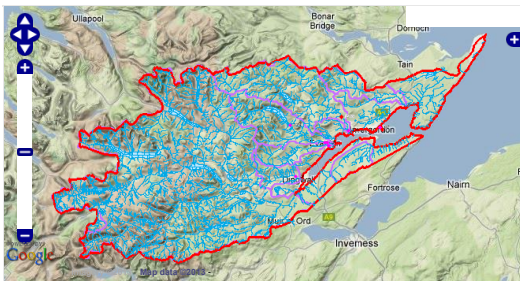
3. Describe

Describe your sighting. [Report a Sighting now.](#)

Where do you want to go?
Settlement Search

Map Layers Key:

- ☒ Candidate Sites
- ☒ Awaiting Inspection / Treatment
- ☒ Sites being Treated
- ☐ Cleared Sites being Monitored



Click on Invasive Species site points to display information


Recent Sightings

- 22 'Unknown'
- 4 Australian swamp stonecrop (*Crassula helmsii*)
- 5 Australian swamp stonecrop (*Tillaea helmsii*)
- 4 Australian swamp stonecrop (*Tillaea recurva*)
- 13 Black locust (*Robinia pseudoacacia*)

Map Tips

- Double-click to zoom in
- Drag to pan
- Hold down the shift key and drag to zoom to a particular region
- If you have a wheel mouse, point to the location on the map you want to zoom into, then rotate the wheel to zoom in or out keeping the same map location at the same point on the map.

Common Invasive Non Native Species



Plant: Buddleia

This is an important and exciting project aiming to control and if possible eradicate harmful invasive plant species from trial river catchments in Ireland, Northern Ireland and Scotland. These plant species threaten native biodiversity, damage both conservation and economic interests and can even pose a risk to human health.

<http://www.invasivespecies.no-ip.org/isweb/MyPublic.aspx?OrgID=RAFTS>

Page 1 of 2

