





Reducing the Impact of Non-native Species in Europe www.rinse-europe.eu

"Investing in your future"

Recording Apps – The Concept









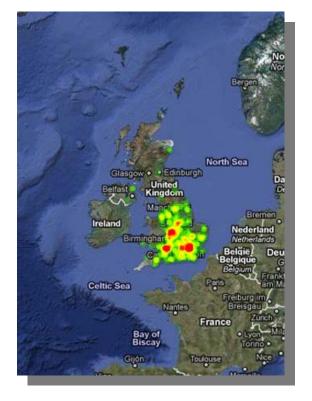


LeafWatch – Demonstrating the power of citizen science





Standard Pin Map: Shows distribution of records received



Heat Map: Shows density of records received





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ThatsInvasive! – The RINSE App













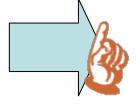
Reducing the Impact of Non-native Species in Europe

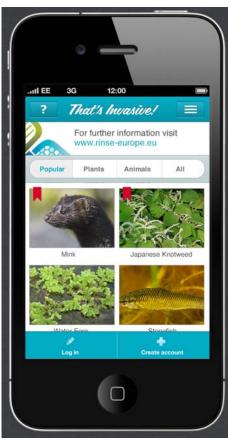
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ThatsInvasive! – The RINSE App









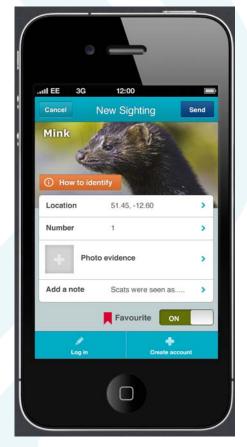


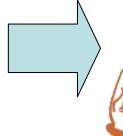


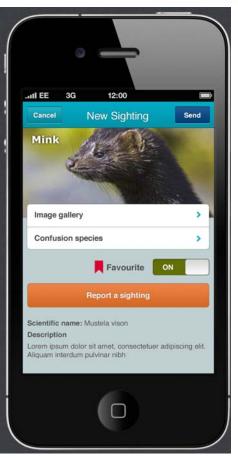
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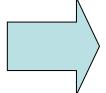




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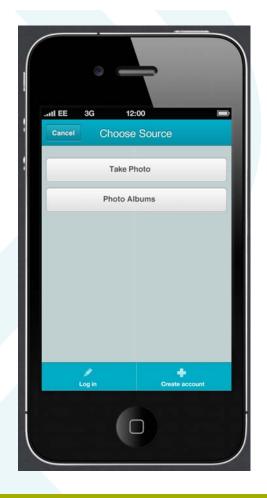


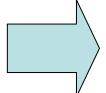


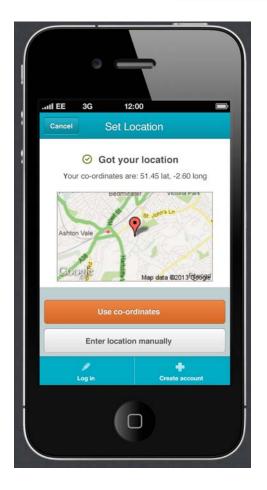


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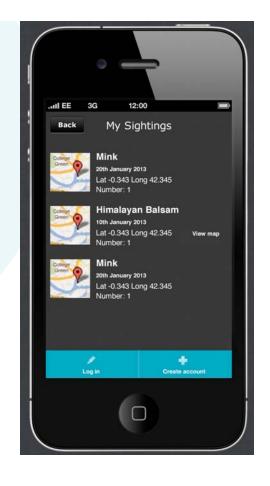






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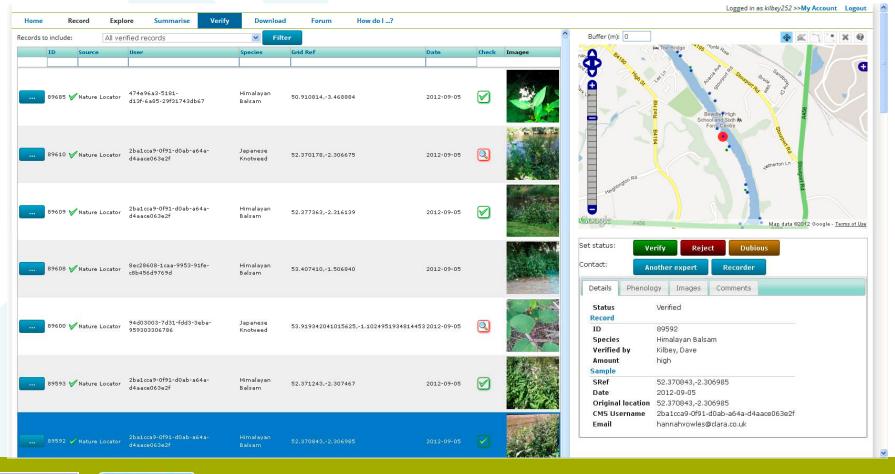
















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Expected results







Himalayan Balsam





Dispersal: seed

Favours riparian habitats, commonly found along river banks

Explosive seed pods propel seeds from plants into nearby water



Rivers can act as dispersal highways, carrying seeds downstream allowing the plant to establish in new areas





Methodology





Landowners

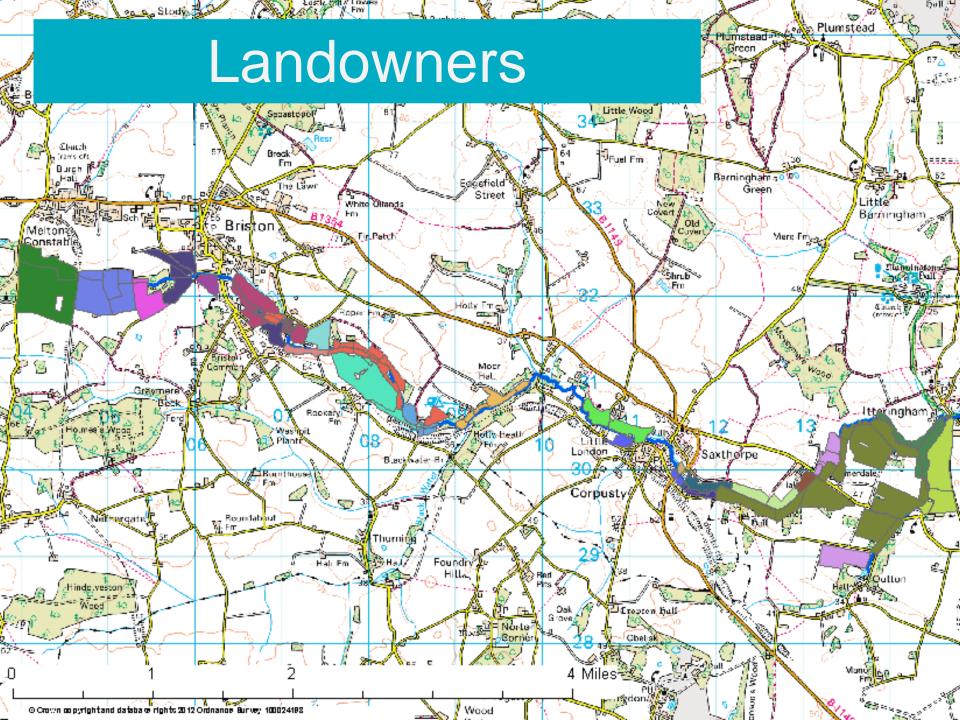
Cooperation vital for survey

Large proportion of Bure along PROW

Obtaining contact details was problematic and slowed survey

Finally successful after approaching EA through Norfolk Wildlife Trust who had previously surveyed the area









Training & Support



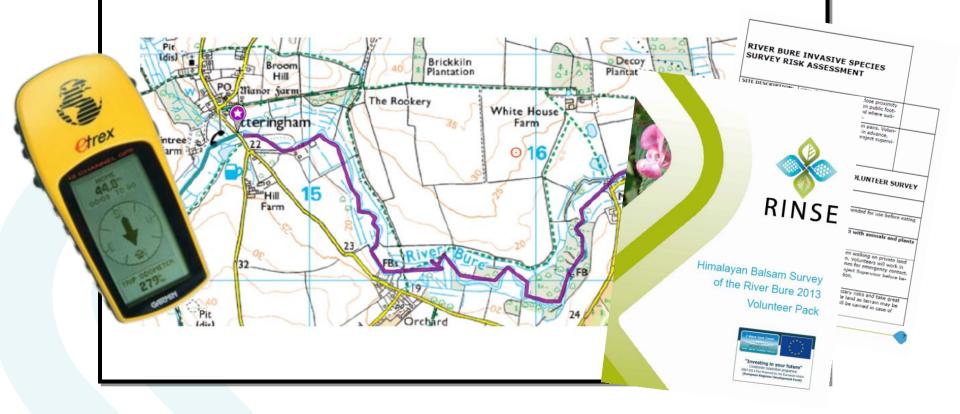
Section Code: RB6 Start Grid Ref: TG146306 End Grid Ref: TG170304 Section Description: Harringh

Section Description: Iterringham

Bridge to TG1730 Parking: Itteringham Distance: 7.5 km







Workshop



Workshop – Blickling Hall

Introduction to the RINSE Project

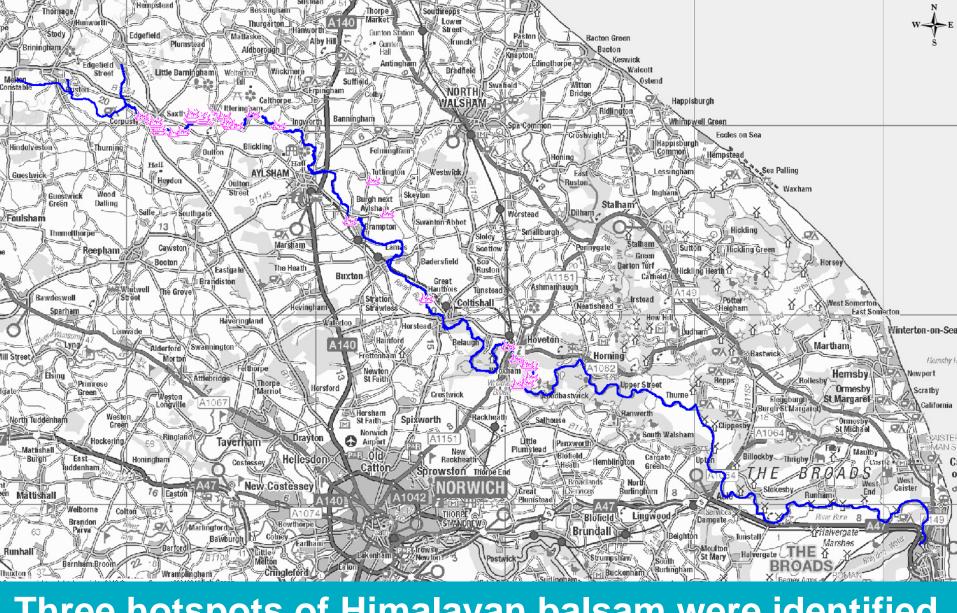
Survey methodology and aims

Identification of invasive plants,

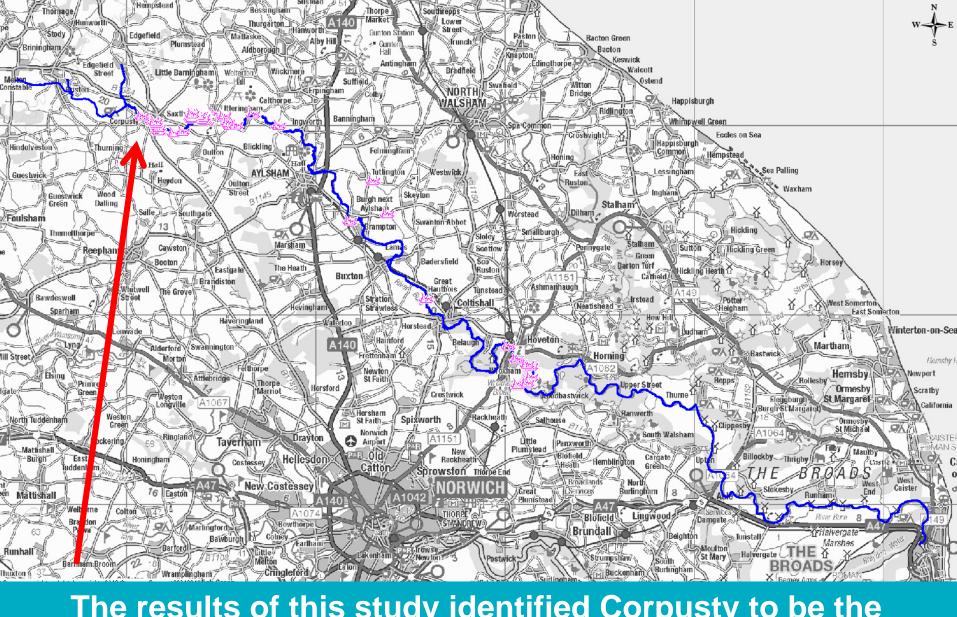
Himalayan balsam, Japanese knotweed and giant hogweed

Bob Ellis – native plants

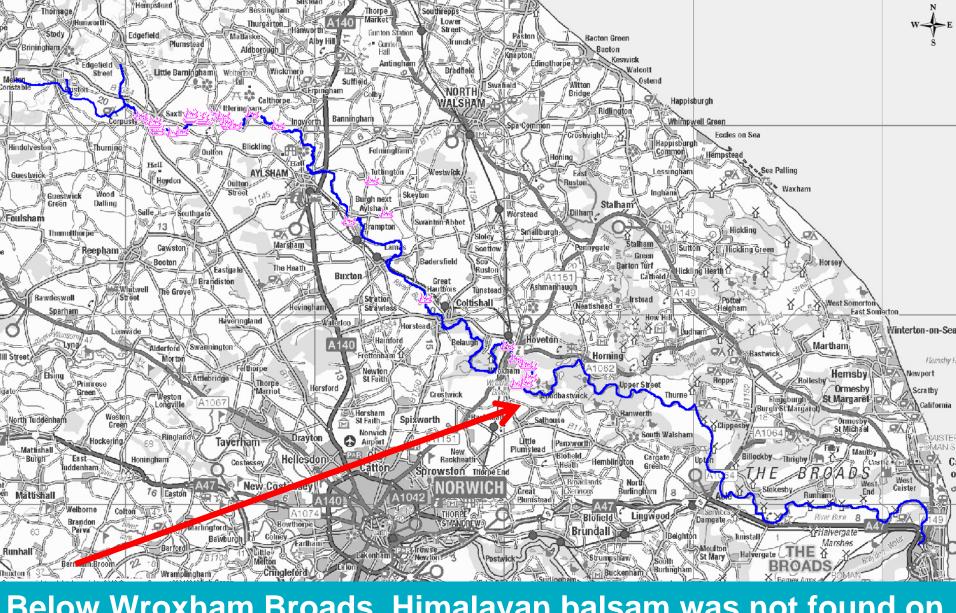




Three hotspots of Himalayan balsam were identified along the River Bure: Corpusty, Itteringham and Wroxham Broads.



The results of this study identified Corpusty to be the uppermost point of introduction and therefore the source of the plant for the whole river.



Below Wroxham Broads, Himalayan balsam was not found on either side of the River Bure and therefore it can be assumed the plant has yet to disperse this far downstream.

Feedback





3ure Himalayan Balsam Survey





RINSE River Bure Survey 2013

rom this survey has highlighted three significant

Himalayan Balsam: Corpusty, Itteringham and

Wroxham Broads.



ons

a river system, Himalayan Balsam's primary dispersal pathway is refore it is vital to target infested areas in the upper catchment to d (Dawson & Holland, 1999). The recommendations are as follows:

is study identify **Corpusty** to be the uppermost point of introduction.

gy of Himalayan Balsam and the potential dispersal of its seeds

ure eradication efforts should be focused at the source of the plant.

1 Broads, Himalayan Balsam was not found on either side of the River therefore it can be assumed the plant has yet to disperse this far erefore a priority for future work should be to halt the infestation at is preventing future colonisation. However the possibility of oductions in this area should not be ignored, increasing the need for an ing network within the catchment.

: local community at **Corpusty** suggests that the Himalayan Balsam shed there within the last year. The implication of this would be a sank making control efforts more effective in the short term.

ons of Himalayan Balsam, and the current knowledge of its dispersal ught the **source** came from within **Corpusty**; likely spreading from a ch lies adjacent to the Bure. Therefore it is recommended that future in effort to engage the local community in Corpusty, raising awareness is am and its impacts on the local environment.



Feedback





Feedback





Tuesday 25th March, 6.30pm-8.30 pm

Erpingham Arms, NR11 7QA

The evening will begin with 3 brief presentations highlighting some the most common invasive—species encountered in the farmed environment of the Broads, and how these can be managed to reduce their impacts. This will be followed by a light buffet and an opportunity to speak to invited experts about particular issues in more detail. There will also be a number of displays about invasive non-native species, including live examples of some of the worst species.



Guest speakers include:

David Hooton (Deer Initiative)

An update on the status of non-native deer in the Broads and options for their management

Simon Baker (formerly of the Coypu Research Laboratory)
Lessons learnt from the coypu eradication programme, and
how these influence the new Norfolk Mink Control Strategy



Mike Sutton-Croft (Norfolk Non-native Species Initiative)

Invasive plants in the Broads

Booking is essential.

To book your place please call 01603 222765 or e-mail NNNSI@norfolk.gov.uk



Workshop in association with:



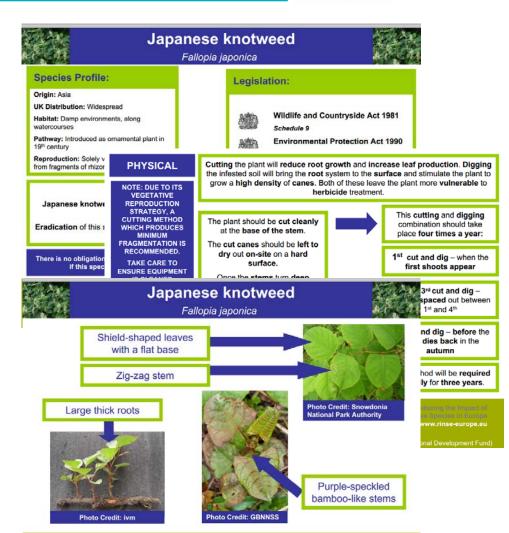














American mink

Mustela Vison

Species Profile:

Origin: North America

UK Distribution: Widespread, except Northern

Scotland

Habitat: Aquatic environments, along watercourses

Reproduction: Breeding takes place between late February and early April producing an average of

5.8 young per litter.



Introduced into Europe as part of the fur trade with over 3500 farms across Europe.

The species is now widely naturalised present in over 28 European countries.





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American mink and the European water vole

In 1990, populations had been lost from 75 % of sites occupied in 1939.

In 1998, populations had been lost from a further 67.5 % of occupied sites.

A total population decline of 88 % in Great Britain alone





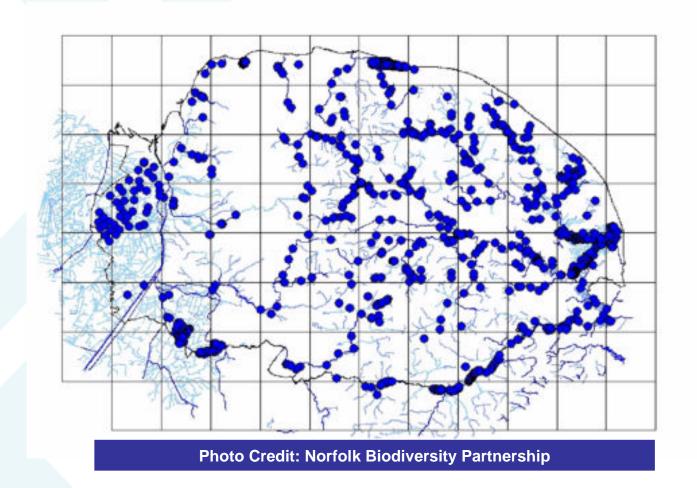


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American mink and Norfolk

The distribution of European water vole across Norfolk from 1997-2005.



The Norfolk Mink Project



- Began 10 years ago, with control focussed on the River Wensum SAC.
- Emphasis was put on 'water vole conservation' rather than 'mink control'.



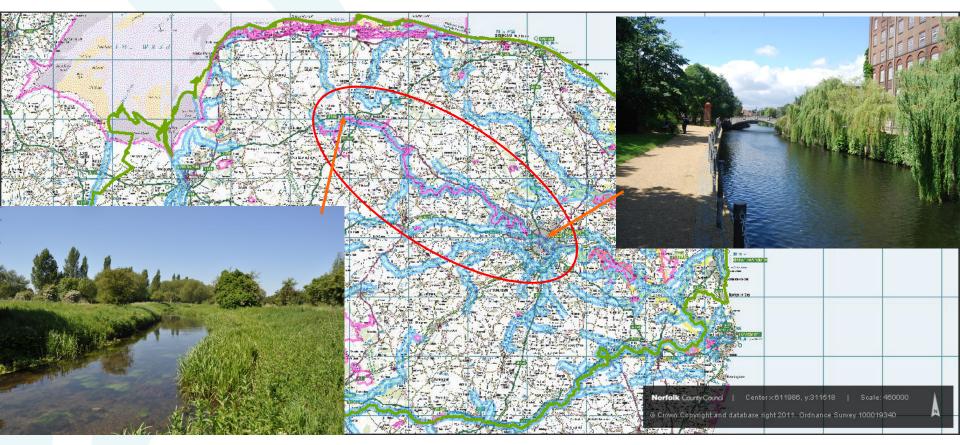




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River Wensum SAC





The Norfolk Mink Project



- The project aimed to establish a self sustaining network of volunteers, who would monitor the mink population and trap them as required.
- Many large Estates on the river were already trapping mink, due to their impact on wildlife and game bird numbers.



Mink Trapping





Mink Trapping



Mink Trapping

This method of mink control has a number of benefits

Scaled-down Trapping

Increased Efficiency

Feedback and Motivation

Reduced capture of non-target species







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Recruitment



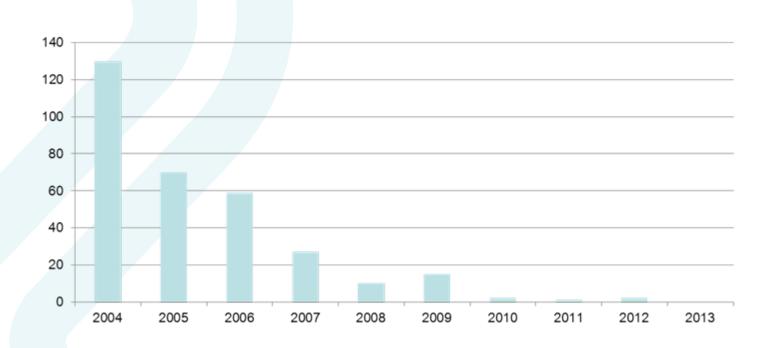




How effective has the project been?



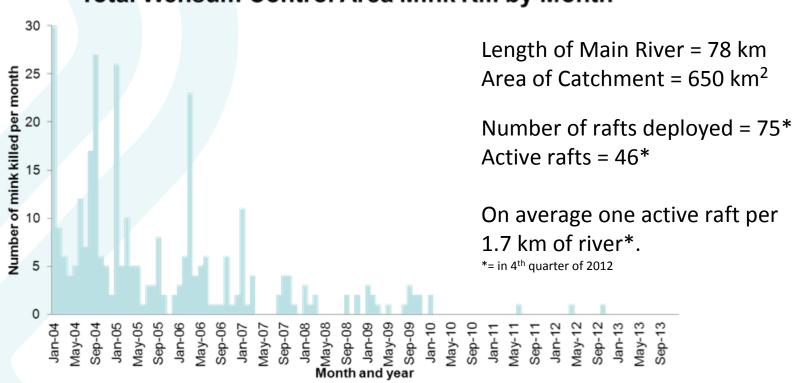
Annual Wensum Mink Kill



How effective has the project been?



Total Wensum Control Area Mink Kill by Month





- Between 2003 and 2010 the project was managed by three different organisations.
- No overarching strategy or aim for the project.
- Expansion was piecemeal as funding became available.

- The Norfolk Non-native Species Initiative (part of Norfolk County Council) took over management of the mink projects in 2011.
- Simon Baker was made Chair of the Mink Projects' Steering Group in 2011.

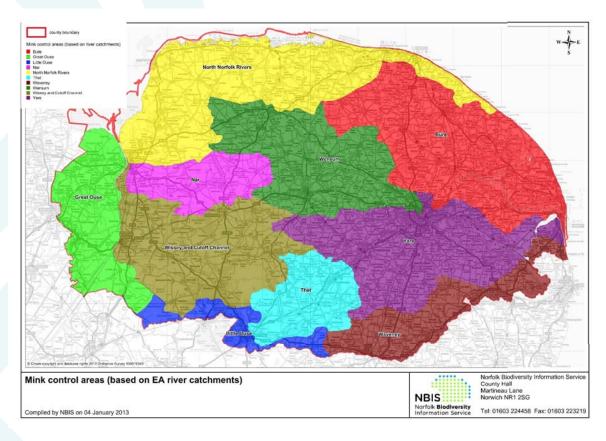




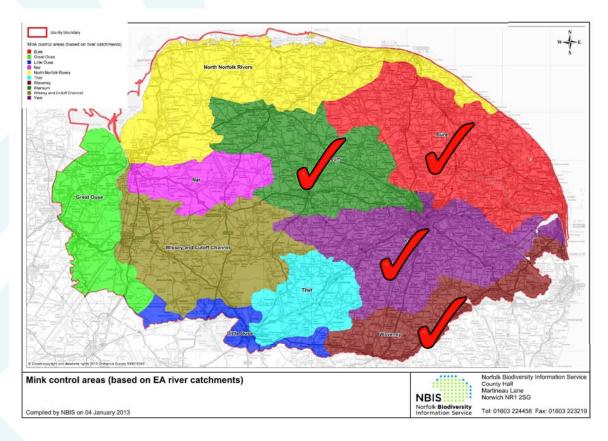


- Simon was commissioned by the NNNSI to produce a new Strategy for the control of American mink.
- A Strategy for the whole of Norfolk with a realistic aim:
 - Reduce mink density to extremely low levels throughout the county, with localised eradication where possible.

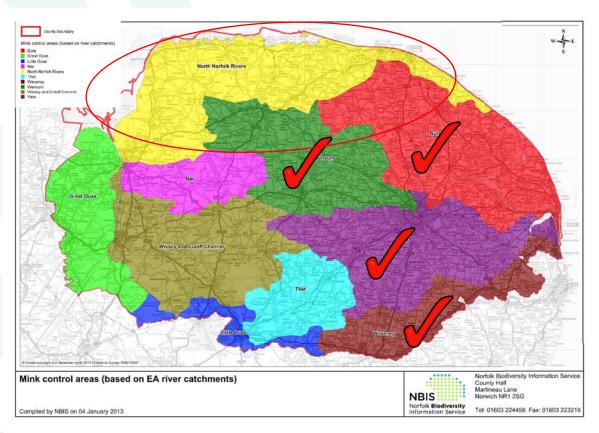












Progress to date



- 30-40 volunteers are involved with the project so far.
- The local community is supportive no opposition at all!
- Although Game Keepers perceive the threat from mink to be low, they are still keen to participate.

Challenges



- All volunteers perceive the number of mink to be low – is this true or just because people haven't been looking?
- One major NGO are hesitant about becoming involved due to potential adverse publicity and conflict. Currently consulting Research Team.

Challenges



 Strong interest from fishermen – although in Norfolk otters are increasingly thought to be more problematic than mink (!?)



Lessons learnt...



- The volunteer trappers respond well to direct personal contact or phone. If you email them forms asking for information you won't get anything back!
- The rafts don't work well in small rivers...
 perhaps use tunnels on the bank side, as
 has been done in the Scottish Highlands?
- Norfolk wide co-ordination is welcome.

Image Credits



- Himalayan balsam GBNNSS
- Himalayan balsam GBNNSS
- Balsam seed pods Albert Bridge
- River Bure Evelyn Simak
- River Bure Ray Sullivan
- River Bure Alexi Francis
- River Bure Evelyn Simak
- Himalayan balsam GBNNSS
- Himalayan balsam Brian Clarke
- Balsam bashing NNNSI



For more information, please visit:

www.rinse-europe.eu

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