

Invasive species action in north-east England













Tweed Invasvies Project 2002 - 2024











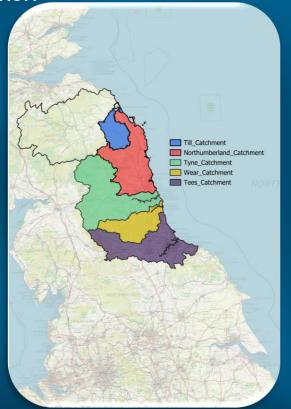








North-east Invasive Non-native Species Strategy and Action Plan 2020-2024



"Develop and maintain costeffective strategic approaches to
prevent, detect, control and
eradicate specified INNS in Northeast river catchments through the
coordinated action of river
catchment partnerships"



https://tweedforum.org/our-work/projects/north-east-invasive-non-native-species-strategy-and-action-plan/











Newcastle City Council



FORUM



Coastal Mitigation Service

Tyne Rivers Trust INNS Project

Northumbrian Water Limited

TOPHOG – Operation Hogweed (Tees River Trust)



Kielder Water Vole Re-Introduction

Wear INNS Project (WINNS)

Northumberland Crayfish Strategy

Northumberland National Park Authority

Northumberland Wildlife Trust

Durham Wildlife Trust

Natural England pirri removals













Northumberland

County Council









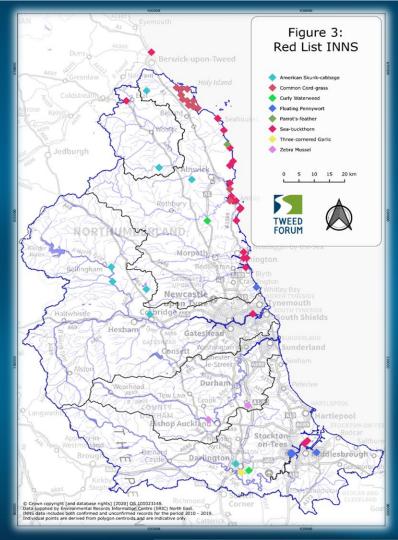




We produced four main objectives...

- 1. Increased regional coordination of INNS management
- 2. Reduce the risk of the introduction and spread of freshwater and riparian INNS in the Northeast through increased awareness and biosecurity
- Detection and surveillance to ensure appropriate rapid management responses
- 4. Strategic and sustainable implementation of longerterm local control and eradication programmes





Blacklist INNS

Alert species that are not currently present in the region but assessed as a high risk and threat

Red List INNS

High-impact species that are present in a small number of sites but not well-established or abundant

Amber List INNS

Well-established species whose eradication is difficult or not feasible, but control is important due to their impact.

Green List INNS

Species present or established in the region, whose eradication is currently not feasible and management is not a priority because of low impact or poor costeffectiveness.



Key outcomes from the strategy



























Working with farmers to implement catchment sensitive farming initiatives to reduce the levels of nutrients entering waterbodies



MACROALGAE

River restoration projects, riparian planting and river corridor fencing initiatives aim to improve the riparian zone and reduce the risks

REMOVAL

Eutrophication has led to increased macroalgal growth across intertidal areas, dense mats of macroalgae smothering habitat areas are causing degradation of protected ecosystems

Removal of biomass alongside water quality improvement measures and modelling to better understand the causes of excessive macroalgal growth are being implemented t enhance the designated features of the protected



Improving the control of Invasive Non-Native Species through enhanced surveillance and detection, novel surveying, and subsequent removal from freshwater, dune and marine ecosystems using non-chemical controls.

refugia will give further protection to wildlife

DISTURBANCE

reation of intertidal

Increasing awareness of the importance of the wildlife and habitats such as the breeding shorebirds, seal populations and fragile dune systems in order to minimize the impacts of visitors.





















TWEED Controlling Dune Invasives





Sycamore



















Controlling Dune Invasives







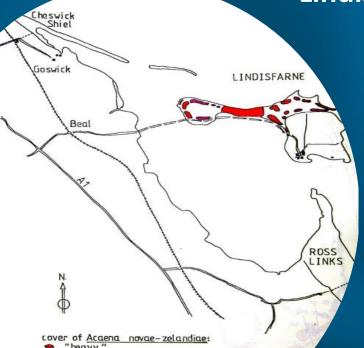






Lindisfarne NNR

• Pirri Pirri Burr







Rootwave trial







- Trialled new Rootwave system for removing invasives without herbicides.
- Uses up to 5000V of electricity applied by a lance
- Equipment was cumbersome generator and transformer on the back of a truck
- Wasn't effective on the dunes possibly due to conductivity issues in sand
- Not going to be the answer to remove invasives in the dunes













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Annual Survey: Holy Island







Annual Survey: Holy Island









Figure 5. BIIGLE analysis of community structure of Hartlepool marina July panel.



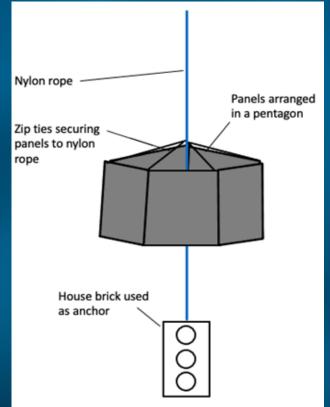


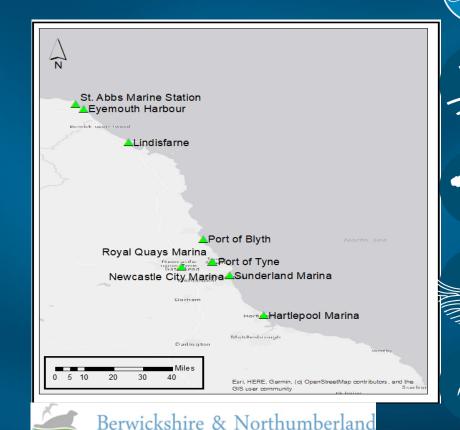






Marine Invasives: SETL plates





Marine Nature Partnership

Tyne Rivers Trust











































Berwickshire & Northumberland Marine Nature Partnership









Northumberland Coast National Landscape

