

Water Voles and Eels

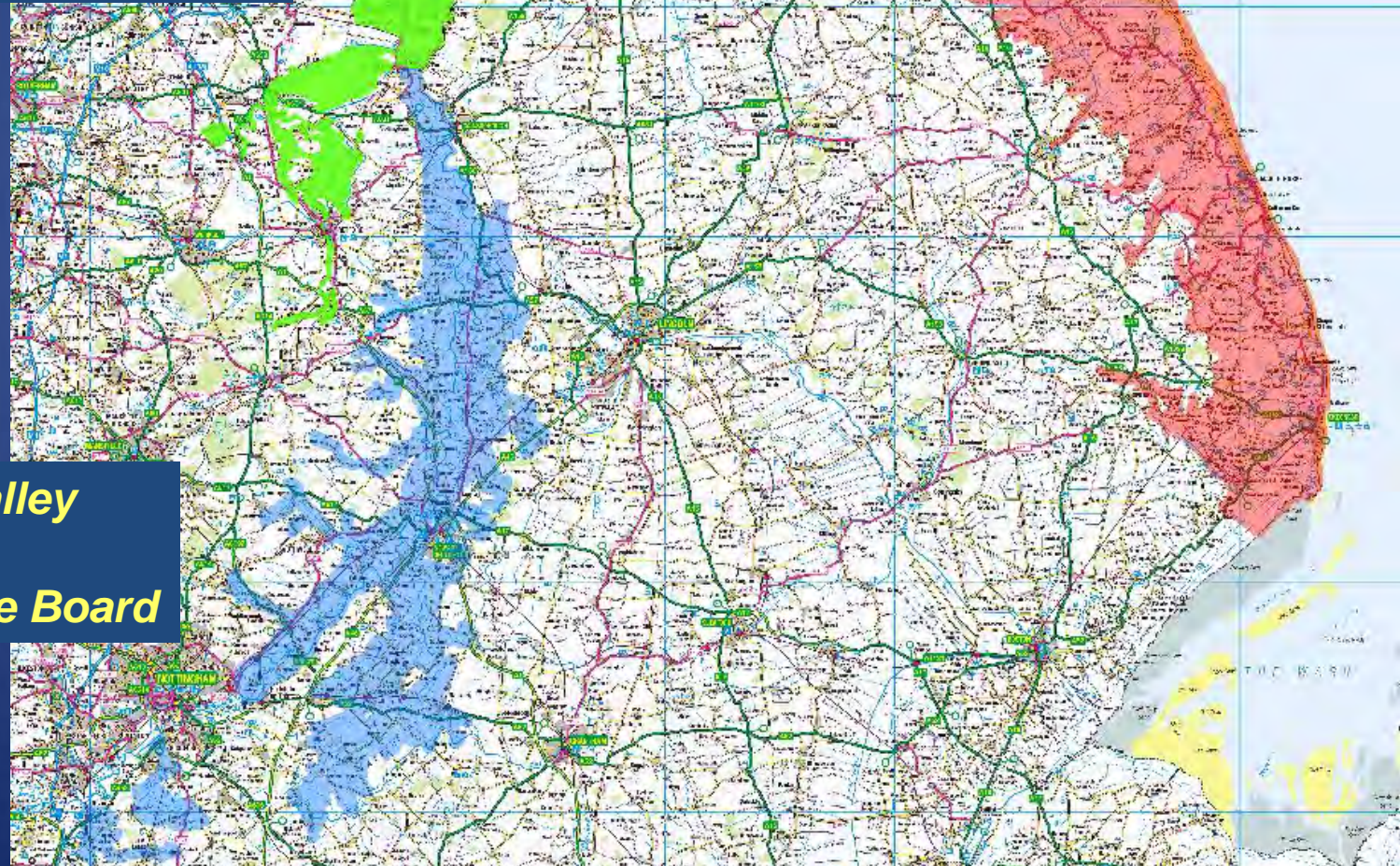
Chris Manning CEnv MCIEEM
Environmental Officer



Water Management Consortium

**Isle of Axholme and
North
Nottinghamshire
Water Level
Management Board**

**Lindsey Marsh
Drainage Board**



**Trent Valley
Internal
Drainage Board**

Water Vole



Ratty Breakfast by Simon Roy, Askham Bog Nature Reserve, Yorkshire
International Garden Photographer of the Year competition (2012)



Water Vole Status

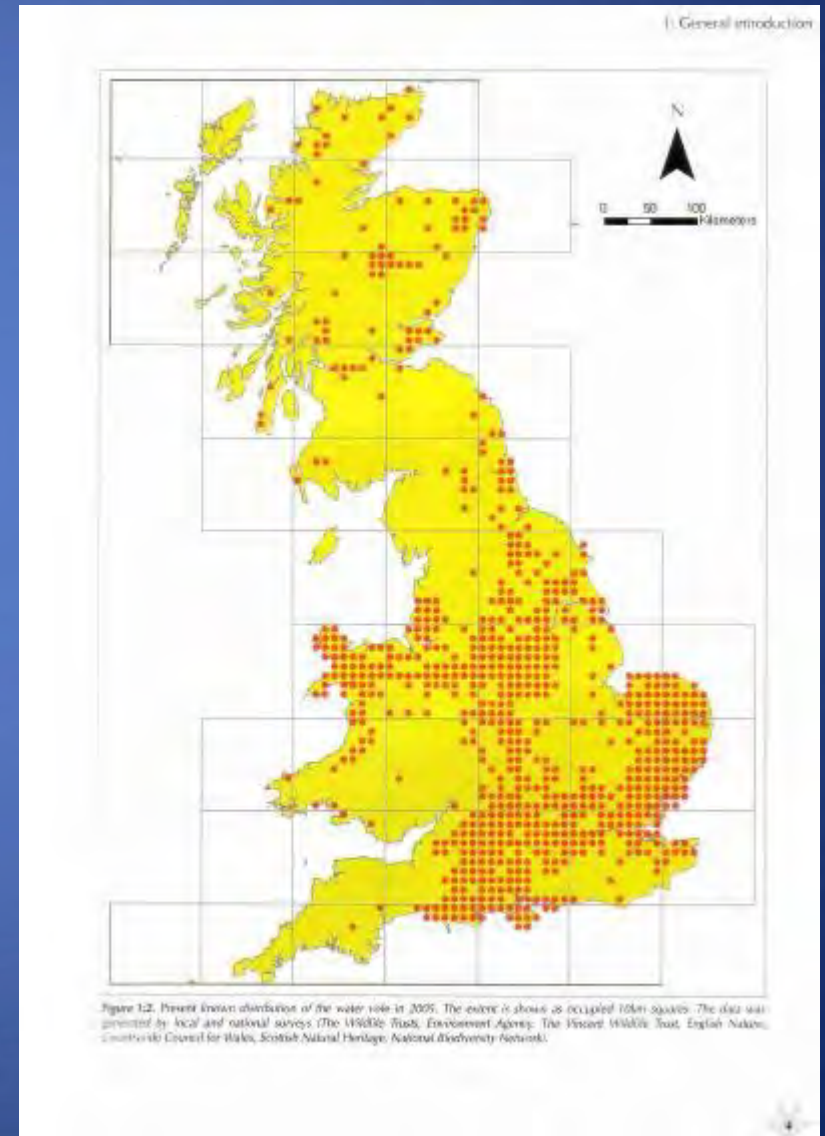
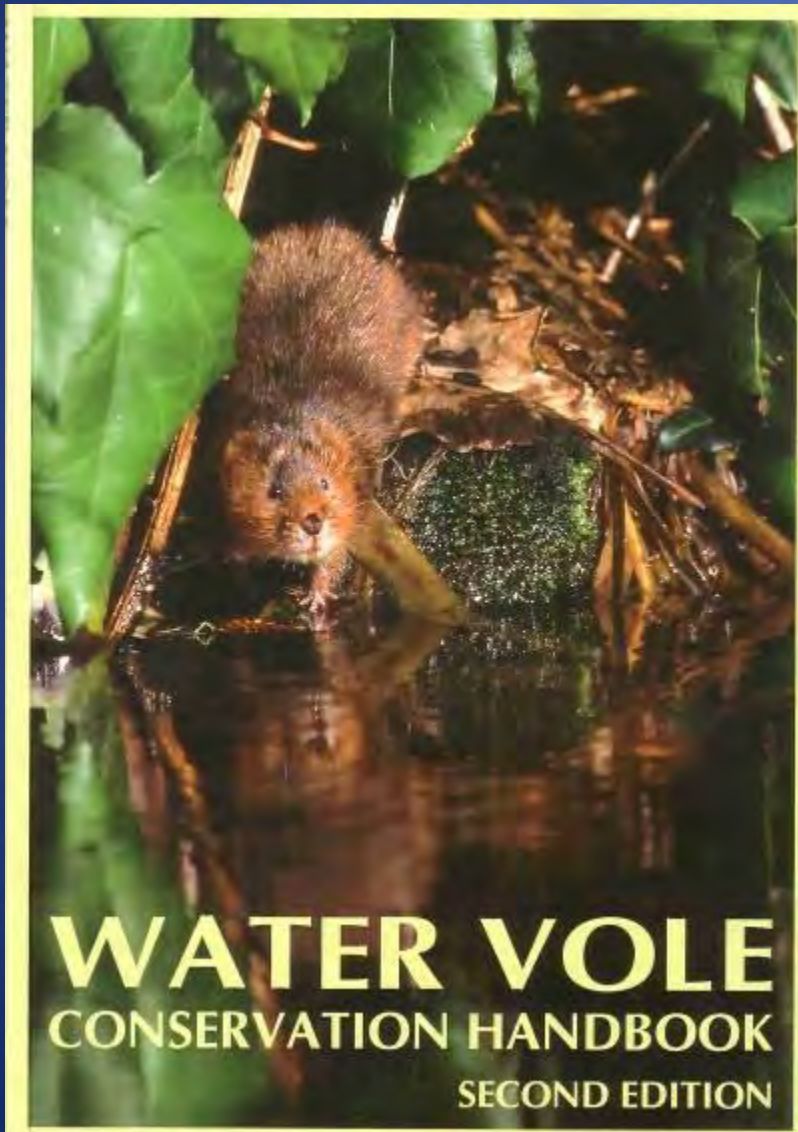
Britain's fastest declining mammal.....



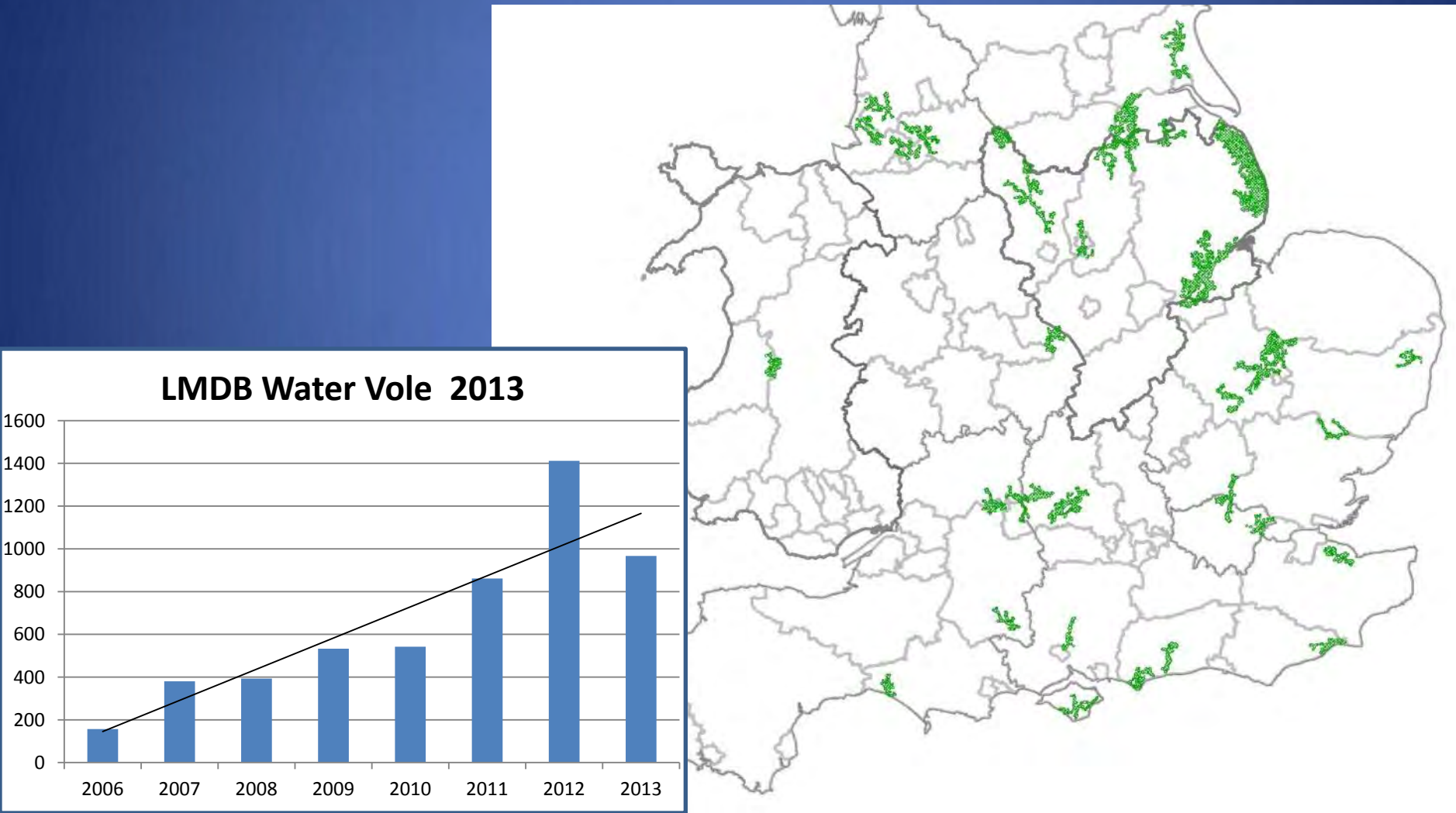
Fully Protected by Wildlife & Countryside Act 1981 (as amended)



National Perspective 2006



Water Vole Status



Maintenance Cutting



- 973km of watercourse cut annually
- 14 operational staff
- Yearly cutting programme = Yearly transects








The Association of Drainage Authorities & Natural England

Internal Drainage Board Biodiversity Competition 2010

Winner

Small-Scale Biodiversity Initiative
Assessed by the IDB BAP Appraisal Group

Achieved by

Project	Marsh Water Vole Project
Board	Lindsey Marsh Drainage Board
Applicant	Chris Manning, Environmental Officer
Date	23 September 2010

The Appraisal Group commended the Project for its co-ordinated and multi-faceted approach, which involved working with a number of local partners. The Project included monitoring populations, improving habitat, integrating measures into routine maintenance activity, controlling predator numbers, and providing advice, training and presentation to staff, businesses and local community groups.


Chief Executive
 Association of Drainage Authorities


Chief Executive
 Natural England



2010 International Year of Biodiversity
Held in celebration of the 2010 International Year of Biodiversity

Capital Schemes



Trapping and Removal

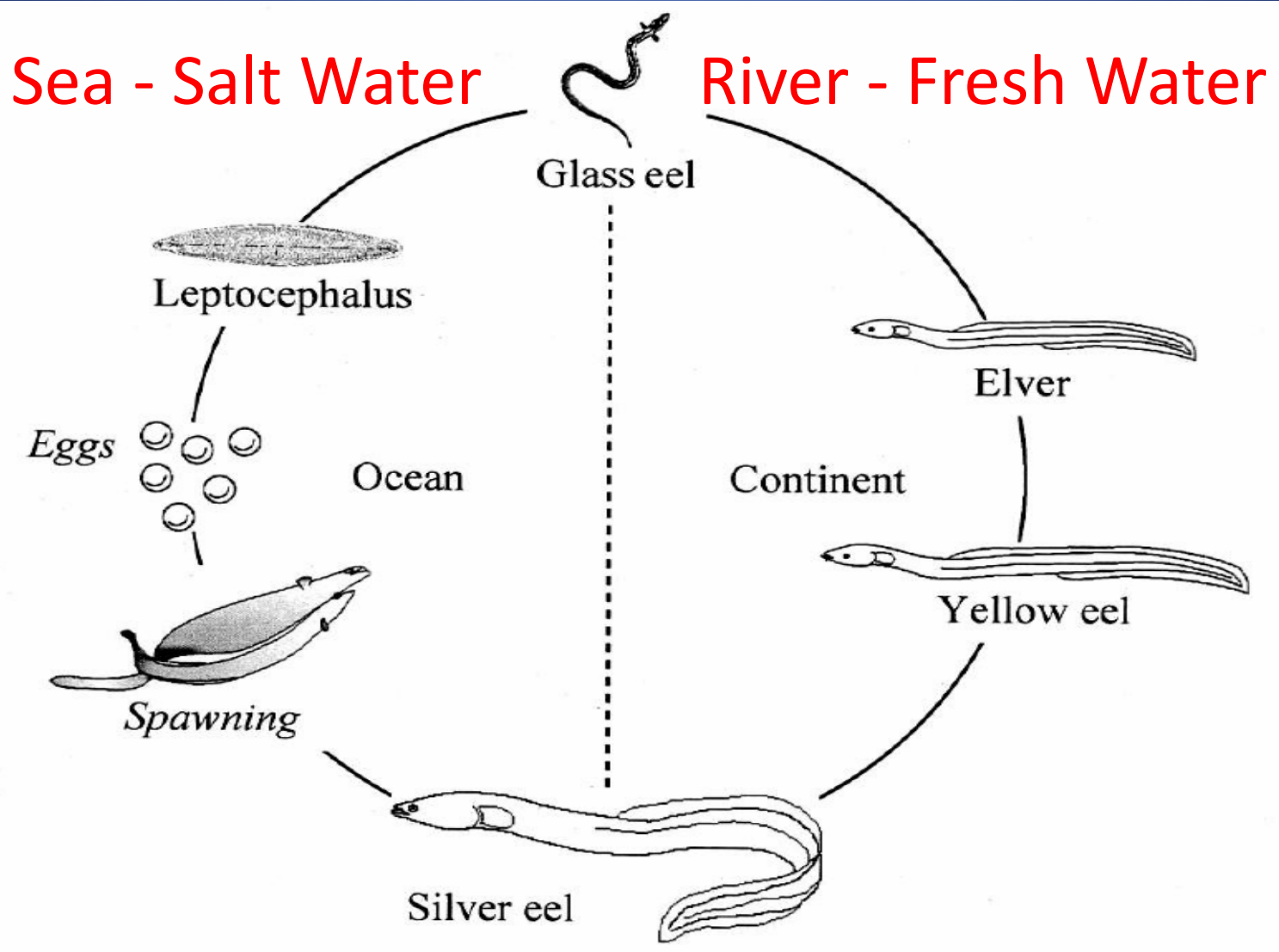
134 captured by EA, in 2011.



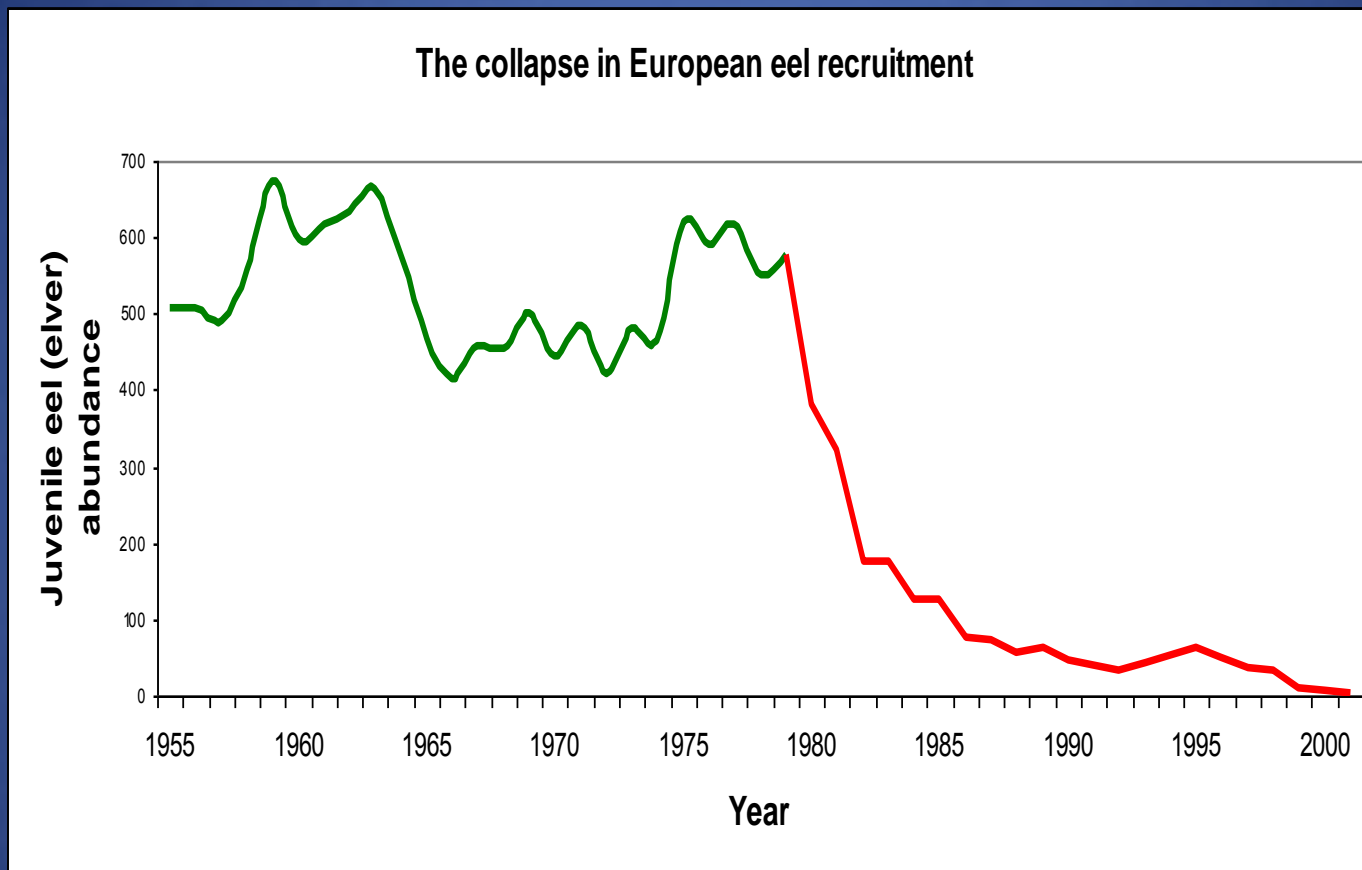
European Eel



Eel Life Cycle



Eel Decline



Eels (England and Wales)
Regulations 2009



Passage into Catchment



Passage from Catchment

Mature Silver Eels need
to return to the sea



IDB Pumping Stations



Pumping Stations Potential Solutions

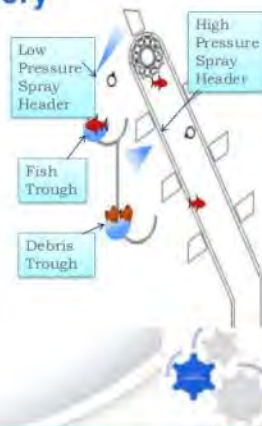
Fish Friendly Pumps



Hydrolox Screens

Hydrolox Drive Mechanism and Fish Delivery

- Positive drive system distributes load across the entire screen width; eliminates mis-tracking, uneven wear and transmits consistent torque
- Identical split stainless steel 13.5" diameter drive sprocket for both screen types.
- Light weight polymer material (40% less) and full width engagement enables faster response times and instantaneous screen speed changes during debris episodes.
- Hydrolox screens are designed to run 24/7.



Pumping Stations Potential Solutions

Behavioural Screens



Eel Bypass



Eel Recording

Prioritised Approach

Questions?

