Translating Regulation into Outcome

The eel's migration from statutory to physical protection

Andy Don National Fisheries Services

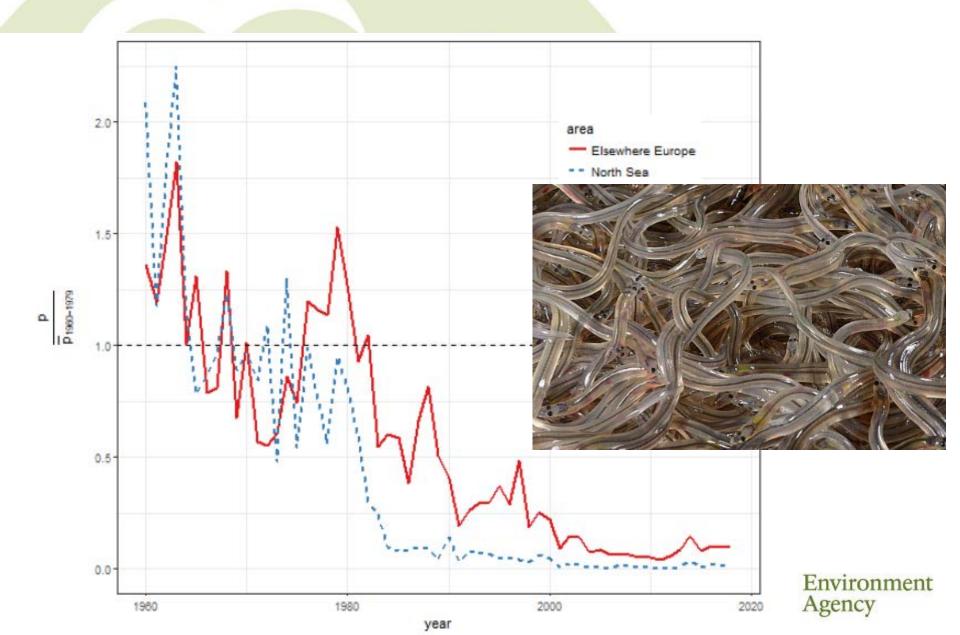


'...Laws too gentle, are seldom obeyed; too severe, seldom executed...'

Benjamin Franklin



What is it all about...?



The European Eel Regulation (EC 1100/2007)



COUNCIL OF THE EUROPEAN UNION Brussels, 14 August 2007 (OR. en)

12031/07

Interinstitutional File: 2005/0201 (CNS)

PECHE 241

LEGISLATIVE ACTS AND OTHER INSTRUMENTS

COUNCIL REGULATION establishing measures for the recovery of the

stock of European eel

22.9.2007

Official Journal of the European Union

1 248/17

COUNCIL REGULATION (EC) No 1100/2007

of 18 September 2007

establishing measures for the recovery of the stock of European eel

THE COUNCIL OF THE EUROPEAN UNION.

EN

locations where eel are exploited. Priority should be given to action by Member States through the drawing up of Bel Management Plans adjusted to regional and local conditions.

Having regard to the Treaty establishing the European Community, and in particular Article 37 thereof,

Having regard to the proposal from the Commission,

Having regard to the opinion of the European Parliament (1).

Whereas:

- (i) On 19 July 2004 the Council adopted conclusions concerning the Commission's Communication to the Council and the European Parliament of 1 October 2003 on the development of a Community Action Plan for the Management of European Ed. which included a request to the Commission to come forward with proposals for long-term management of eels in Europe.
- (2) On 15 November 2005 the European Parliament adopted a resolution calling on the Commission to immuliately submit a proposal for a regulation for the numery of European rel studes.
- (5) The latest scientific advice from the International Council for the Exploration of the Sea (ICES) concerning European cel is that the stock is outside safe biological

(5) Council Directive 92/43/EBC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (2) and Diractive 2000/60/EC of the Petropoon Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy (3) are intended, inter alia, to prosect.

water policy (?) are intended, fitter alia, to protect, conserve and enhance the aquatic environment where each spend part of their life cycle and it is necessary to ensure that there is coordination and consistency between measures taken under this Regulation and those taken under the aforementioned Directives. In particular, Eel Management Plans should cover river basins defined in scanetonic with Directives 2000/6018C.

- (b) The success of measures for the recovery of the framework of stack depends on close conjunction and codernation at Community, Member State and local and regional level as well as on information, consultation and involvement of the public sectors involved. To this end support from the European Fatheries Fund may contribute to the effective implementation of Bel Management Plans.
- 7) If twer basins lying within the national territory of a Member State cannot be identified and defined as constiuating natural habitats for the European ed, it should be possible for that Member State to be exempted from the obligation to propose as fiel Managament Ren.
- (8) In order to ensure that eel recovery measures are effective and analysis is in passage of the Mamber Street Manifes



The Eels (England & Wales) Regulations 2009 Statutory Instrument

'The Eel(s) Regs.'



STATUTORY INSTRUMENTS

2009 No. 3344

FISHERIES, ENGLAND AND WALES

RIVER, ENGLAND AND WALES

The Eels (England and Wales) Regulations 2009

14th Documber 2000

	stage	14m December 2009	
	Laid before Parliament	21st December 2009	
	Laid before the National Assembly	y for Wales21st December 2009	
	Coming into force	15th January 2010	
	CONTE	NTS	
	PART		
	Genera	п	
1.	Title, commencement and application	2	
2.	Interpretation	2 3	
	Carrie and the contract of the carrier of the carri		
	PART		
	Records and re	estocking	
3.	Eel catch returns	3	
4	Records	3 4 4 4 4 5 5	
5	Imports	4	
6.	Exports	4	
7.	Duties on consignees	4	
8.	Restocking	5	
9	Interpretation	5	
	PART	3	
	Eel Lices		
10.	Close season	6	
11.		6	
•••	the state of the s		
	PART	4	
	Passage of	feels	
12.	Construction, alteration etc of obstruction	6	



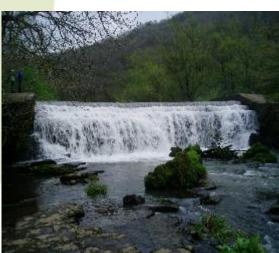
The main impacting factors on eel populations

Access/migration barriers,
Entrainment, Loss of habitat,
Predation, Water quality/pollution,
Pathogens & parasites,
Climate change/oceanic factors











The Eel Regs

Part 1 Context and definitions

Parts 2 & 3 Regulation of commercial and recreational eel fishing. Plus 60% for restocking

Part 4 The passage of eels.

Part 5 Notices and Appeals

Part 6 Enforcement and Penalties



We had to:

- Design a process
- Train and support staff
- Get 'responsible persons' to understand The Regulations, the process and their obligations.....and act on them(!)

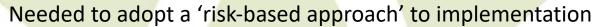
Scale of the challenge:

Qualifying sites range from this:



to this:







Prioritisation: A Two Stage Approach

Stage 1. Filter **26,000** potential obstructions **/21,000** abstractions down to a "useable" number.

- Standardized Process
- identify those with highest geographical significance.
- Use Nationally managed and maintained Datasets and GIS tools

Based on criteria such as:

Distance from Head of Tide

Relative Size

Predicted presence of Eel from Fisheries Classification Scheme (FCS2)

Water body abstraction "Sensitivity" (from CAMS)

Length of stream opened

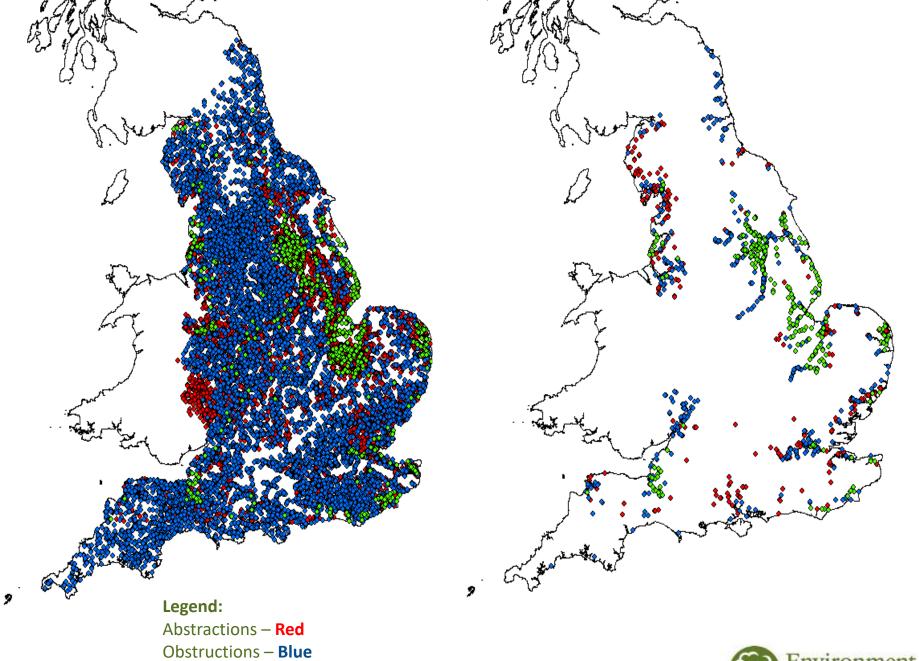
Proportion of catchment opened

Number of barriers downstream

Stage 2. Local Consultation

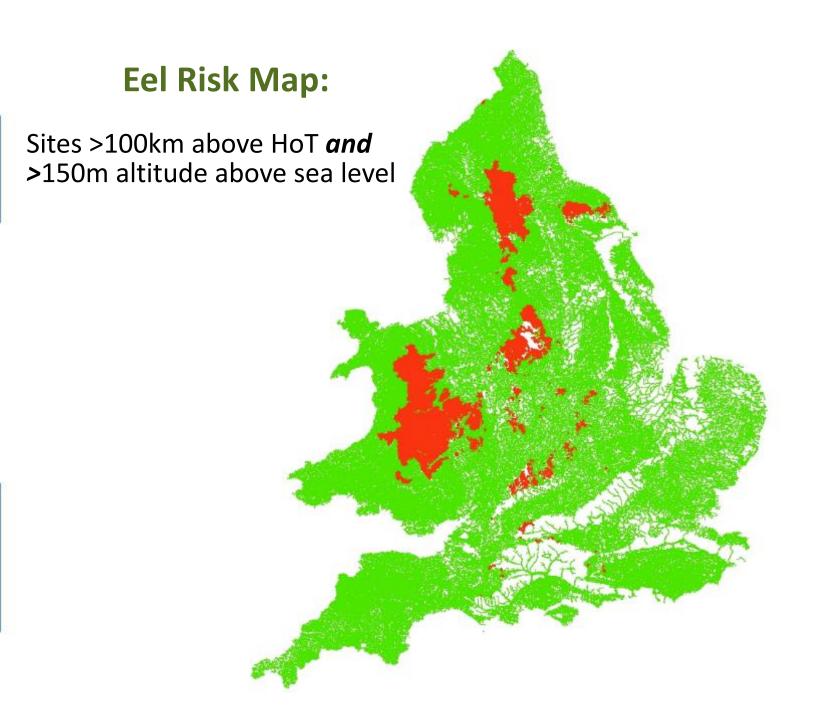
"Wise up" the filtered list.





Pumping Stations – **Green**

Environment Agency







Monitoring elver and ee populations

The Eel Manual - GEHO0211BTMY-E-E

European Commeasures for th

This regulation r

We have product actions which ar Wales.



Stocking European Ee (Anguilla anguilla)

The Eel Manual - GEHO0211BTMX-E-E





Screening at intakes and outfalls: measures to protect eel

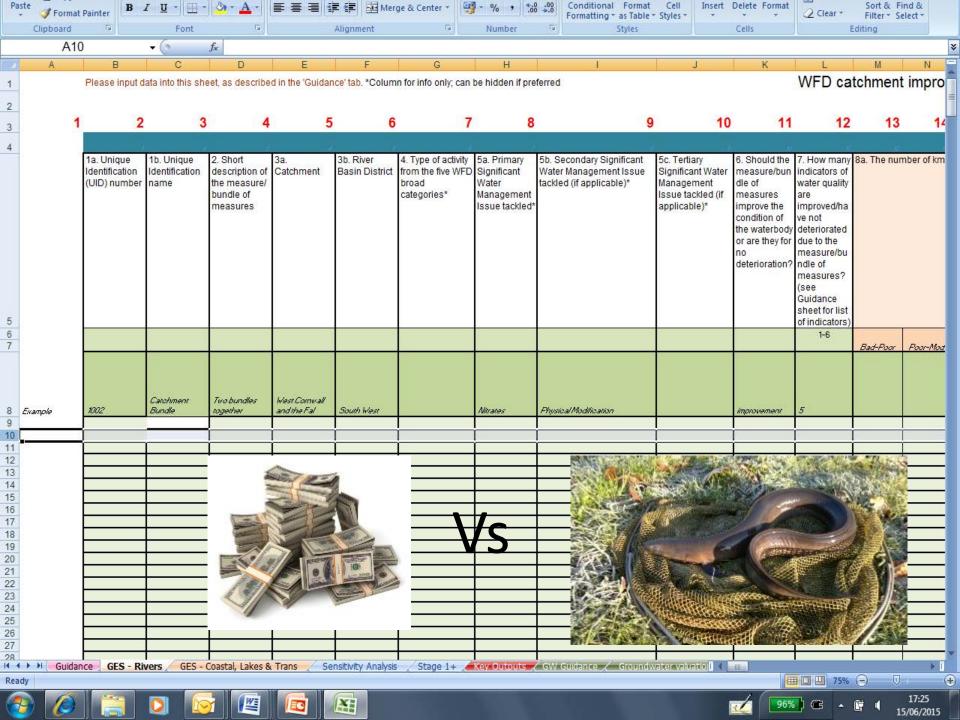
The Eel Manual - GEHO0411BTQD-E-E

Elver and eel passes

A guide to the design and implementation of passage solutions at weirs, tidal gates and sluices

The Ed Manual- GEHOG2116TMV-E-E







Safe Passage for Eel:

Alternative Measures (where best practice screening is not cost beneficial for existing sites)

What's this document about?

This guidance supports the Safe Passage for Eel Guidance of Exemptions and it should be read in conjunction with this management system document. This document specifically deals with sites that require works under Part 4 of the Eels (England & Wales) Regulations, 2009 but via the economic appraisal process, are deemed not cost beneficial for best practice screening. We have introduced Alternative Measures to ensure that asset owners do all that is reasonable to protect eel.

When should I use this guidance?

This document has been written for existing sites only. If, having carried out a cost benefit analysis for the existing site, the results show that it is not cost beneficial to achieve best practice screening, you will need to refer to the following guidance to decide what Alternative Measures are appropriate at the site and should be included as a condition on the exemption notice. It may also be necessary to use this document if you believe that best practice screening is not feasible for another accepted reason (for example health and safety at nuclear plants).

For **new build sites** we expect best practice screening to be intrinsic to the design of the scheme. Please refer to the Safe Passage for Eel Operational Instruction section - Applying the regulations, New abstractions, impoundments and in-river works.



Key	
	Denotes suggested Alternative Measures by sector
	(NB: the split by sector is for guidance only. There may be sites that fall outside of this sector split

Table A: Alternative Measures by Engineered solutions

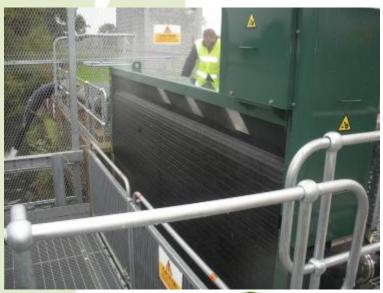
lable A	Alternative Mea	sures by	Engine	erea solu	tions					
	Alternative Measures Options by Engineered Solution	Is Table C required?	Sector							
Most to least Preferred Option			Nuclear	Combustion	Water	Environment Agency	Hydropower (must also consider existing hydropower guidance)	Agriculture, Canal & Rivers Trust, NGOs, National Trust, Private Landowner	IDBs	Refineries, Chemical Works, Steel Works, Incinerators Paper & Pulp
	Improve existing screening but to a lesser standard than Best Practice, for example increasing the slot width or the intake velocity and including a Fish Recovery Return (FRR) system and monitoring*	No								
	FRR installed onto existing drum/band screen	No								
	Fish friendly pump or turbine installed (where through- passage is beneficial)	No								
	Improve existing screening but to lower than BP gap size/approach velocity specifications inc. monitoring*	Decided via Local Area Assessment								
	Improvements made to existing FRR system	Decided via Local Area Assessment								
	Eel-specific bypass added e.g. bed bypass, Venturi attracting flows	Decided via Local Area Assessment								
	KLAWA (or other approved) silver eel bypass system added	Consult Screening Helpdesk								
	Intake flows altered by the addition of flow deflectors/baffles	Yes								
	Intake location altered	Yes								
	Behavioural deterrent added with monitoring*	Yes								



Sector compliance and implementation





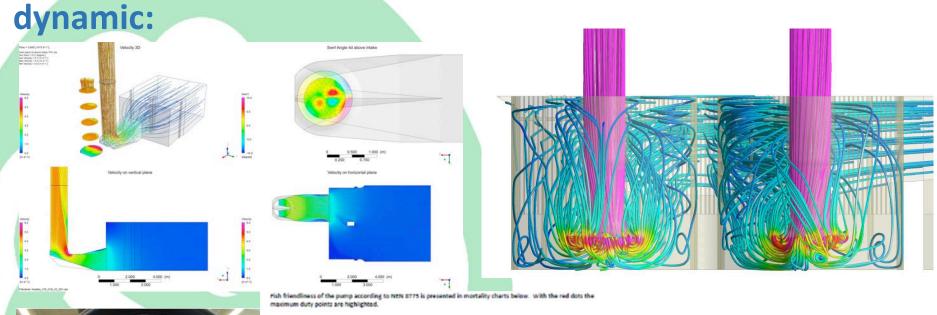




Accessible Solutions: Efficiency of "Eel Tiles" for upstream migrating glass eel (Angwilla anguilla) ascending an experimental Crump weir Andrew Youles, Andy Don, Peri Karageorgopoulos and Faul Remp in the LE, author bears, removable of read to us. To Flori Il gave 1.0. We being installed as low-fourfall families to be itself-tion of bears applicate and high size. To bein, all array of the This I have been collected and the behavior of only as they observe to accord the late is unknown. Objectives Quarty or behavior when dismetry is expend an inhalffed to their ord excited with relations the democracy described made of calcy and the democracy described on the democracy d Results self-men edge observed and progress of factors on the men related that were no short, beginning the second of pages of the second of pages of the pa Conclusions Might instruct of Bulletins (need content of the first product 38 75) served than they include our passion.



Evidence and Guidance, and therefore solutions are all

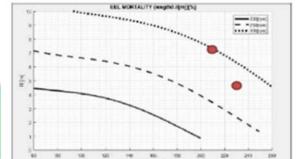




F.SH MORTALITY daught 15(m)(N)

- 2 200(m)

Figure 13: Mortality chart scaly fish









PROCEEDINGS OF THE FIRST INTERNATIONAL EEL SCIENCE SYMPOSIUM

EDITED BY ANDY DON PAUL COULSON







Thank you for listening!

