

University of
Kent



Surveys, data collection and population modelling techniques

Update your methods for Great Crested Newts



DICE
University of Kent

Durrell Institute of
Conservation and Ecology

ncse
National Centre for Statistical Ecology

The legal basis of Favourable Conservation Status

Favourable Conservation Status is a term derived from the Habitats Directive 1992 (Article 1 (i)):

conservation status of a species means the sum of the influences acting on the species concerned that may affect the long-term distribution and abundance of its populations within the territory referred to in Article 2;

The conservation status will be taken as ‘favourable’ when:

- population dynamics data on the species concerned indicate that it is maintaining itself on a long-term basis as a viable component of its natural habitats, and*
- the natural range of the species is neither being reduced nor is likely to be reduced for the foreseeable future, and*
- there is, and will probably continue to be, a sufficiently large habitat to maintain its populations on a long-term basis;*

What the workshop will cover

- Recent developments of statistical tools that can be used to estimate:
 - *Population size*
 - *Population abundance*
 - *Site occupancy*
 - *Whether a population has been depleted by a translocation*
 - *The viability of populations in fragmented habitats*
- Demonstrations of relevant software
- Applications to real case studies

What the workshop will not cover

- Standardised survey protocols
- Minimum standards for survey and mitigation
- Formal training in statistics and modelling
- Spatial modelling using GIS

**Statistical models
are like lampposts...**

**“...they should be
used for illumination
not for support.”**



I GUESSH I CANT SHTAND
DISH MUSH LONGER.

DON'T YOU THINK THE
EXPRESSION 'AS PISSED AS
A NEWT' IS A BIT INSULTING
TO US NEWTS BILL?

TOO RIGHT
SID!

I'M
BRIAN

I'M
ERIC

BESTIE

