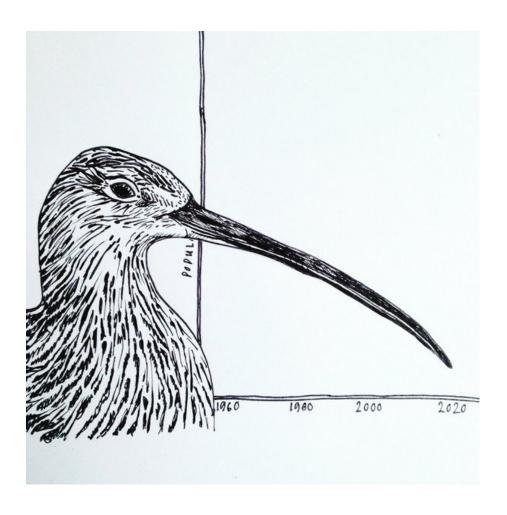
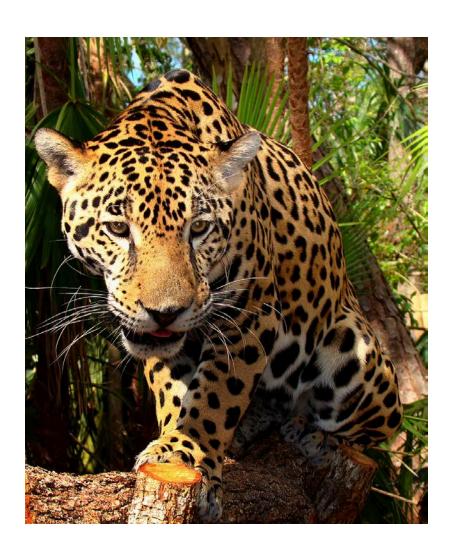
Saving Curlews Mary Colwell



Near Threatened

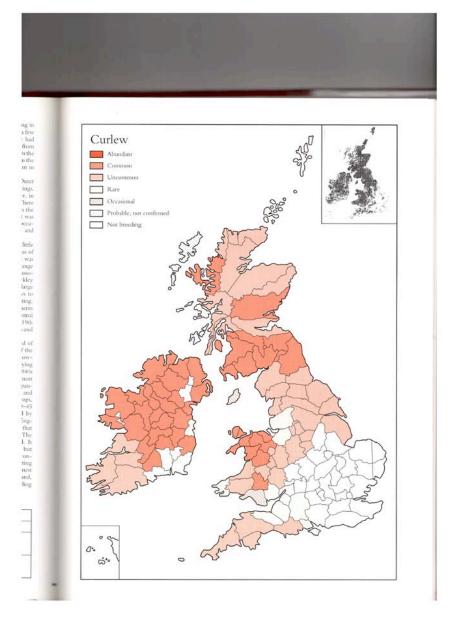
Threatened with extinction in the near future – same as jaguar



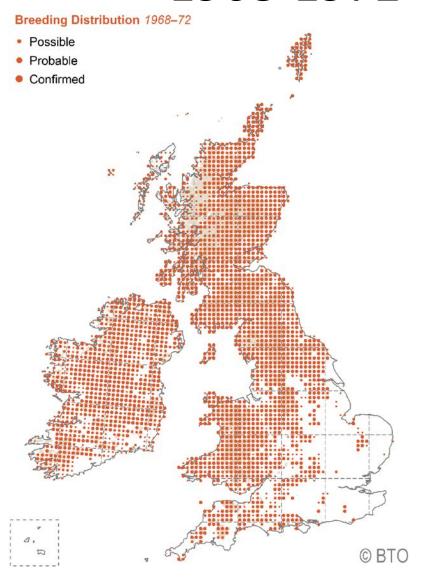
Declines

- Global population estimated to be around 750,000 in 2006.
- But since the 1980s- Decline of 97% in Ireland since 80s - Wales 80% - England 60% Scotland 50%
- On average a 30% decline across the rest of its range in last 15 years

Breeding 1875-1900

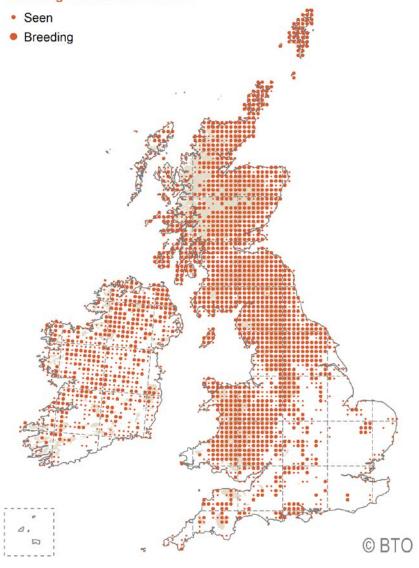


1968-1972

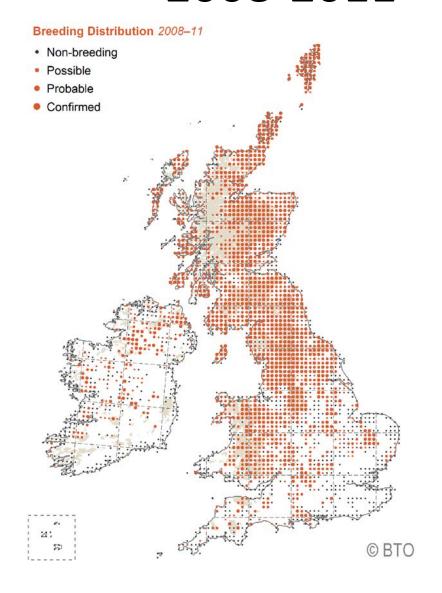


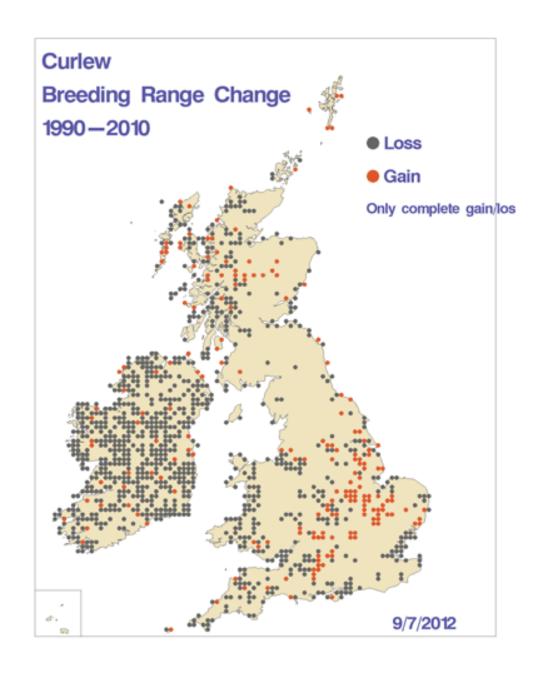
1998-1991

Breeding Distribution 1988–91



2008-2011





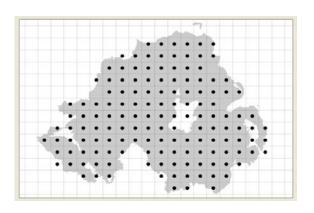


Status of curlew in Northern Ireland

- NI breeding wader surveys carried out in 1987, 1999 and 2013
- 146 10km squares surveyed across NI
- 82% decline in curlew since 1987
- Survey estimated 526 pairs of curlew remaining in 2013 (<u>+</u> 95% CI: **252**-783)
- That's 5000 pairs to 526 (or more likely 250) in c25 years









Slemish Mountain



RSPB Trial Management Plan



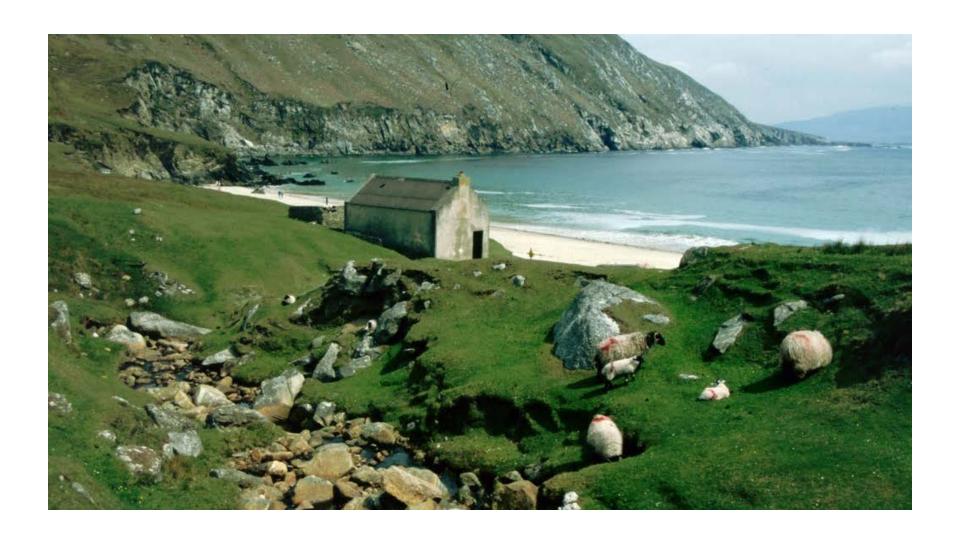
Lough Erne, Co Fermanagh



Southern Ireland







Industrial peat extraction



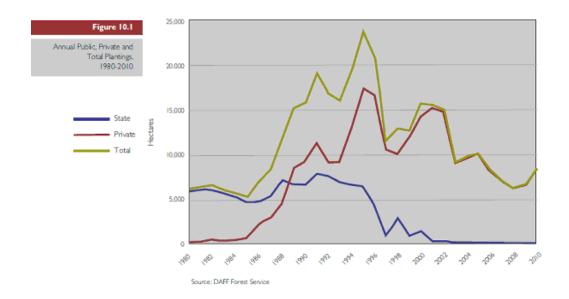
3 peat fired power stations in Ireland



- There has been a 99% loss of original area of actively growing raised bog in Ireland, and one-third of the remaining 1% has been lost in the last 10 years.
- 70% of Ireland's remaining curlews nest on bog



Forest cover



Ireland will increase forest cover by 6% by 2020 (another 46,000 hectares)

Early Silage Cutting

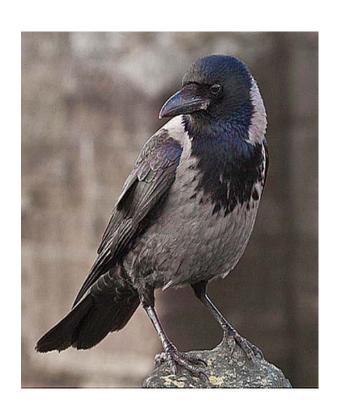


- 75% of Ireland's land is agriculture
- 81% of agricultural land is for pasture, hay and grass silage
- Over half a million tonnes of grass for cows produced in 2015





Predation



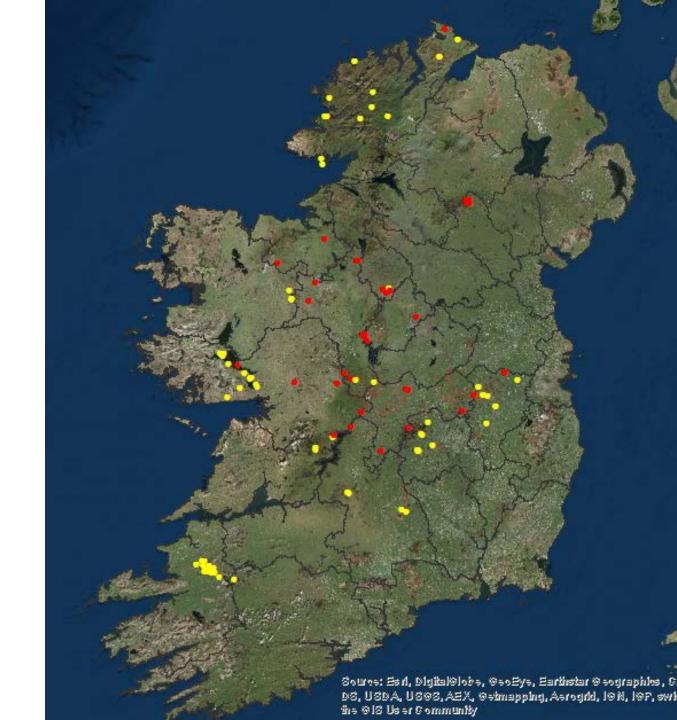


2015: Yellow dots

2016: Red dots

Key Areas:

- -Stacks Mountains
- -Lough Corrib
- -Midlands Bogs



Results

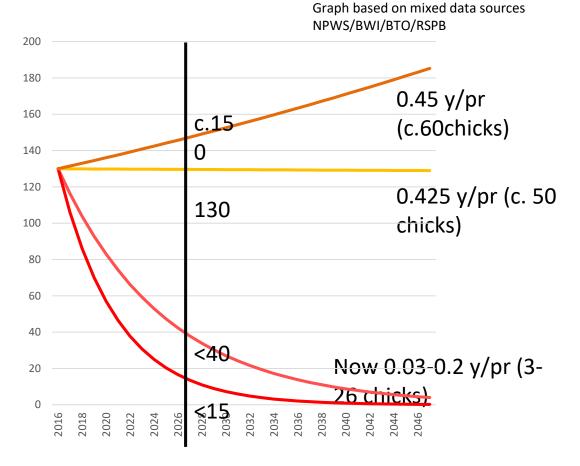
TOTAL = 122 pairs

(Excludes Shannon Callows, scheduled for survey in 2017 – approx 5 pairs?)

- **↓** 97% decline since 1980s **↓**
- **↓** 34% decline since 2007-2014 **、**

WORKSHOP SESSIONS

How do we go from red to green?



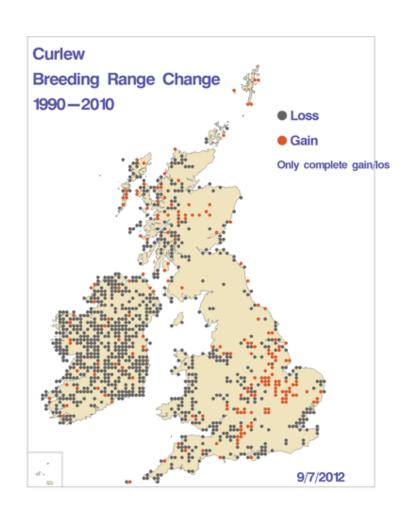


The bird of full-throat



Curlews in Crisis Workshop Nov 4th 2016





Anglesey









Windmills and Sheep



Sheep numbers

- 1999 11.8 million sheep in Wales
- 2015 9.5 million

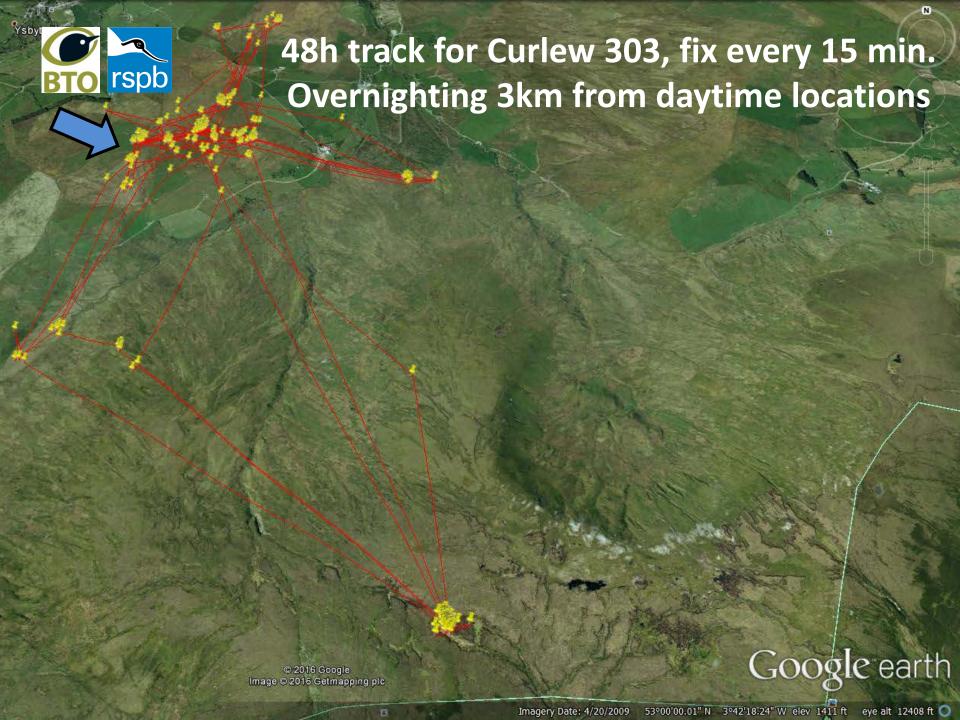
Windmills



Green dots are operational windfarms, purple are under construction and yellow dots are those that have been approved. Source: UK Wind Energy Database (RenewableUK)

Rachel Taylor – BTO Research







48h tracks from all three Curlew, fixes every 15 min.



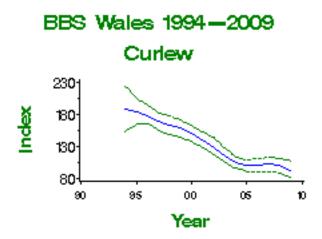
Lake Vyrnwy



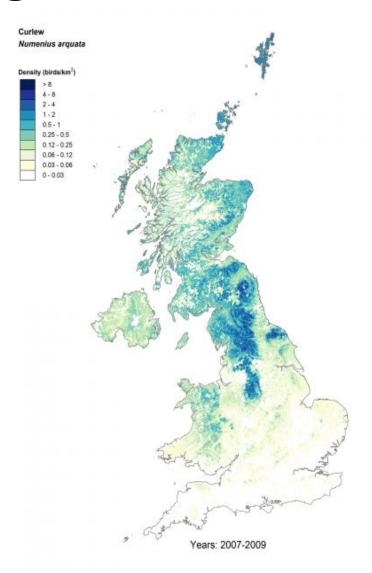


Wales

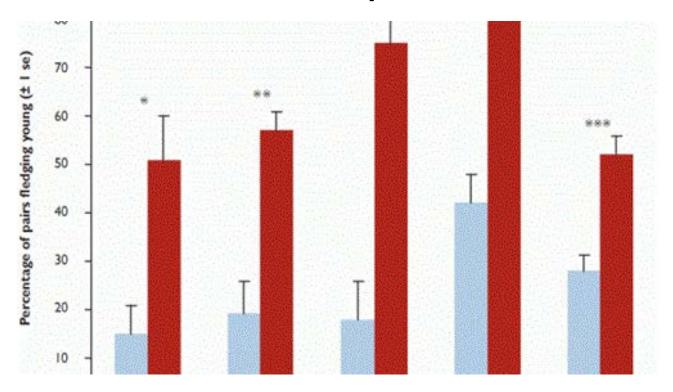
• 500-600 pairs in total? Where are they? In rapid decline – 80% since 1980s.

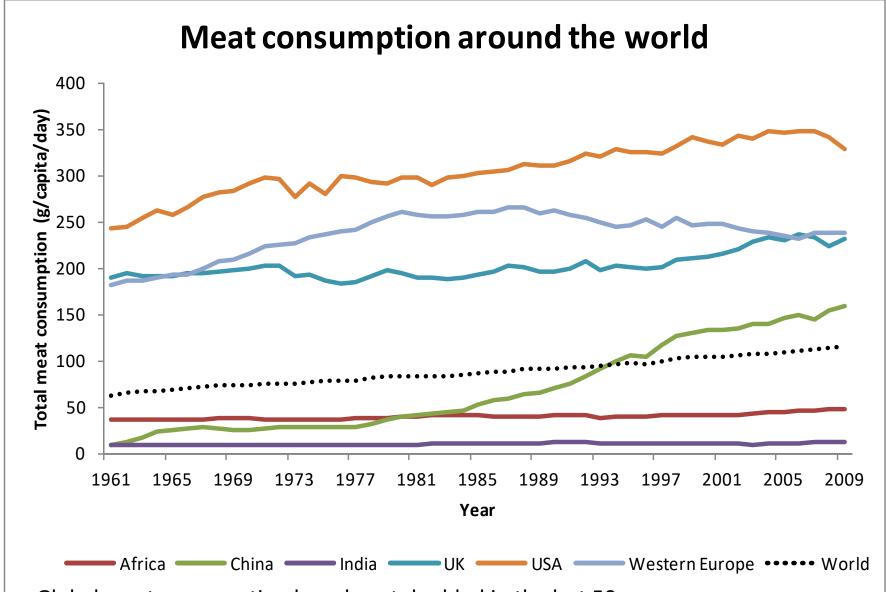


England and Scotland



GWCT Research on breeding waders on uplands 2010





Global meat consumption has almost doubled in the last 50 years from 63g (person/day) in 1961 to 115g (person/day) in 2009 (FAOSTAT 2013).



Fledging success (2013-2016)

Sample sites (agriculture & predation):

47 % hatching success 33 % chick survival 0,41 fledging success Control sites (agriculture):

19 % hatching success 22 % chick survival 0,16 fledging success

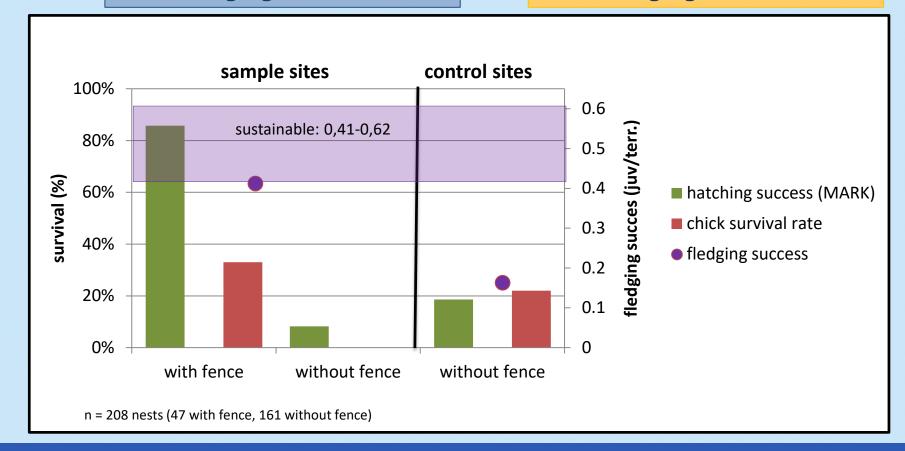


Chart 1: UK Milk Usage, 1994 & 2004 (million litres)

	1994	2014	% change
Liquid consumption	6,773	7,028	+4%
Butter	292	288	-2%
Cheese	3,251	3,866	+19%
Cream	265	301	+13%
Condensed milk	751	270	-64%
Milk powder	2,098	1,562	-26%
Other manufacture	632	732	+16%

Source: Defra, Agriculture in the UK 2014, table 8.5

