



Biodiversity



The CAFRE Journey to better biodiversity on the Hill Farm

Uplands
Symposium
2023

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Department of

Agriculture, Environment and Rural Affairs







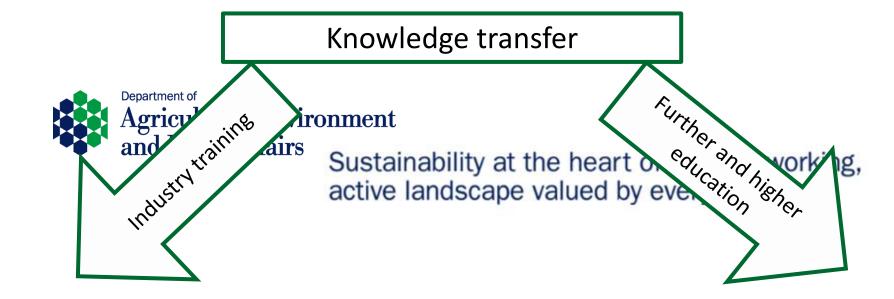








College of Agriculture, Food & Rural Enterprise















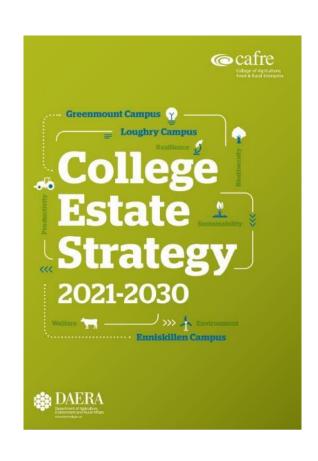
CAFRE Technologist





College Estate Strategy





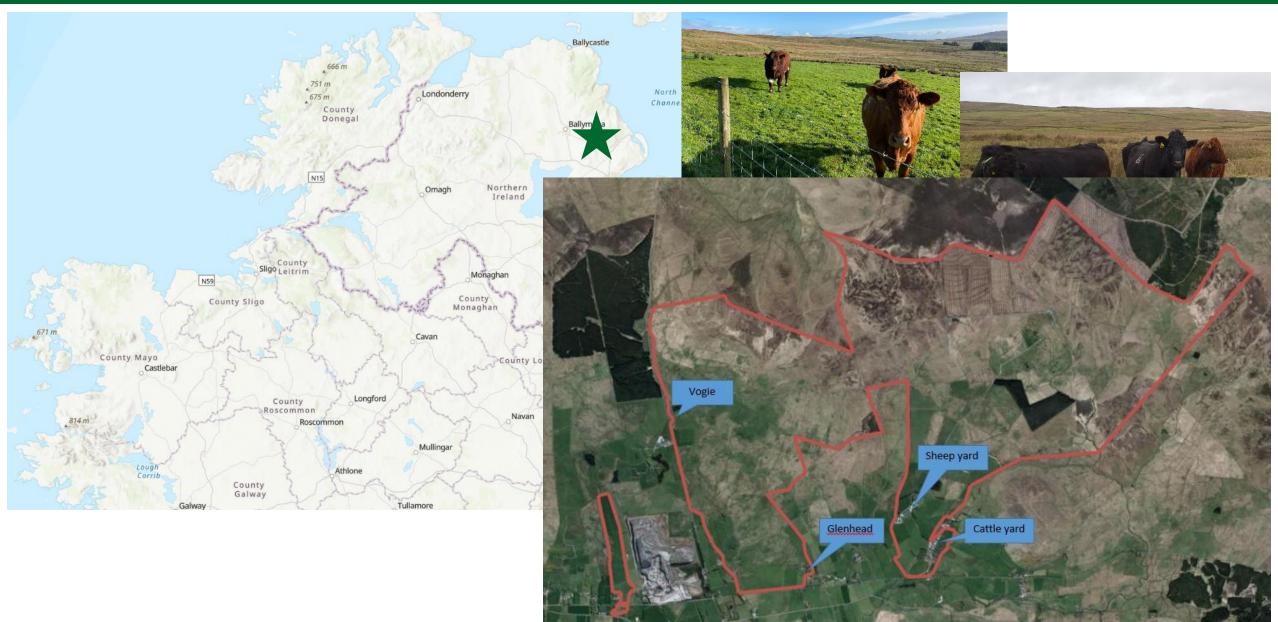
CAFRE Estate Strategy Targets 2021-2030

- 1 CAFRE to be 50% Carbon Neutral by 2030
- 2 Eliminate the use of peat in horticulture by 2025
- CAFRE air quality to not impact on local habitats and health by 2030
- Reduce anti microbial usage by 95% by 2030

- 5 CAFRE water to be of "Good" quality status by 2030
- 6 CAFRE productive land to be in "Good" soil health status by 2030
- 7 Eliminate CAFRE land fill waste by 2025
- 8 CAFRE habitats to be in favourable condition by 2030

Hill Farm Centre



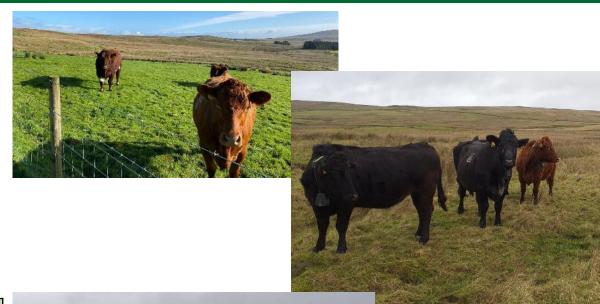


Hill Farm Centre



Herd Performance	Herd three year Average
Number of Cows to Bull	112
Scanning %	94
Calving Index	371
Cow Weight (KG)	638
Calf Birth Weight (kg)	35.2

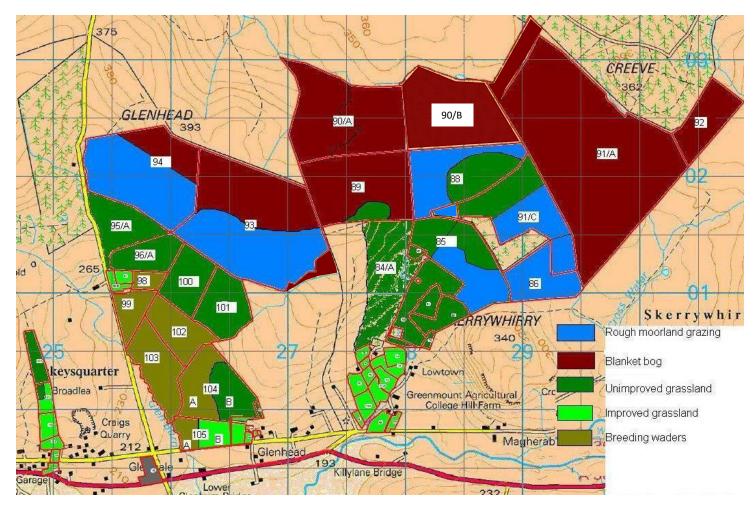
Flock performance	Three-year average	
	Hill Flock	Upland flock
No. of ewes to the ram	349	758
Scanning %	1.48	1.81
Ewe weight (kg)	54.9	64.5
Lamb Wean weight (kg)	27.6	29.95
Kg lamb/Kg ewe mated.	0.63	0.86





Hill Farm Centre









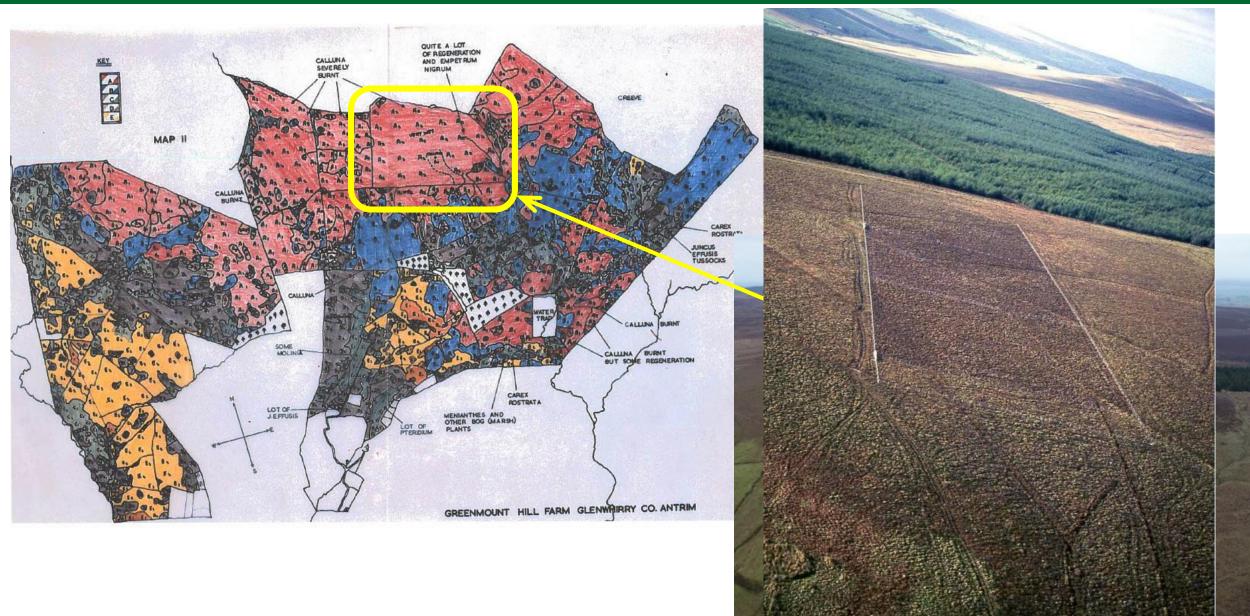






History of the Hill Farm





Glenwherry Hill Regeneration Partnership

















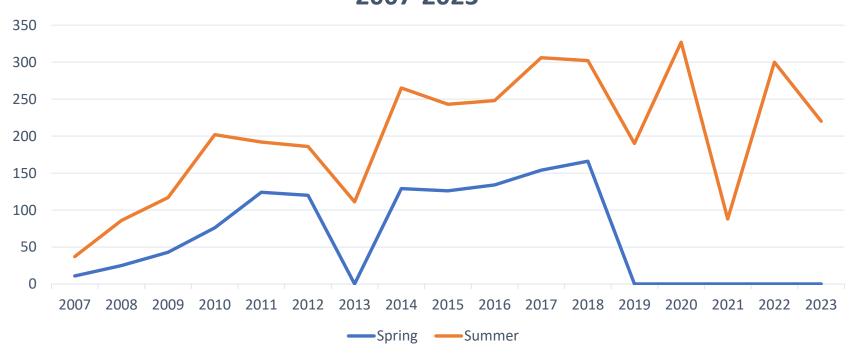
Red Grouse





The Irish Grouse Conservation Trust

IGCT SPRING/SUMMER GROUSE COUNT 2007-2023







Snipe



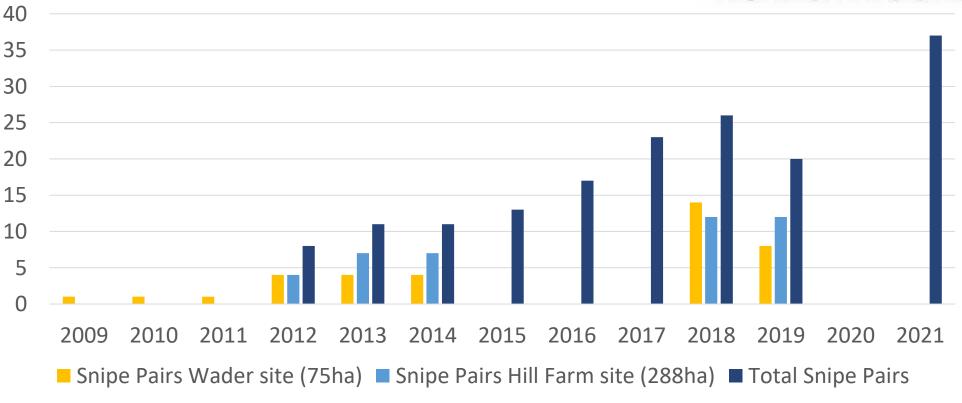






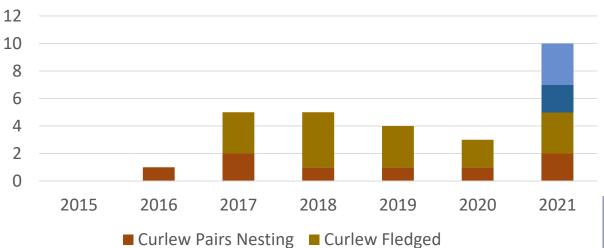






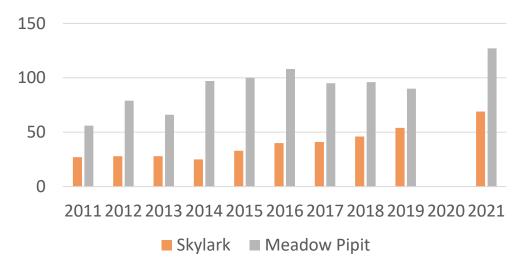


CAFRE Hill Curlew & Lapwing 2009-2021





■ Lapwing Pairs Nesting ■ Lapwing Fledged





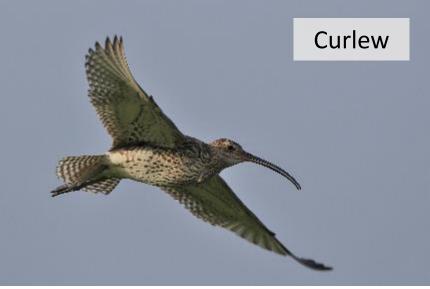
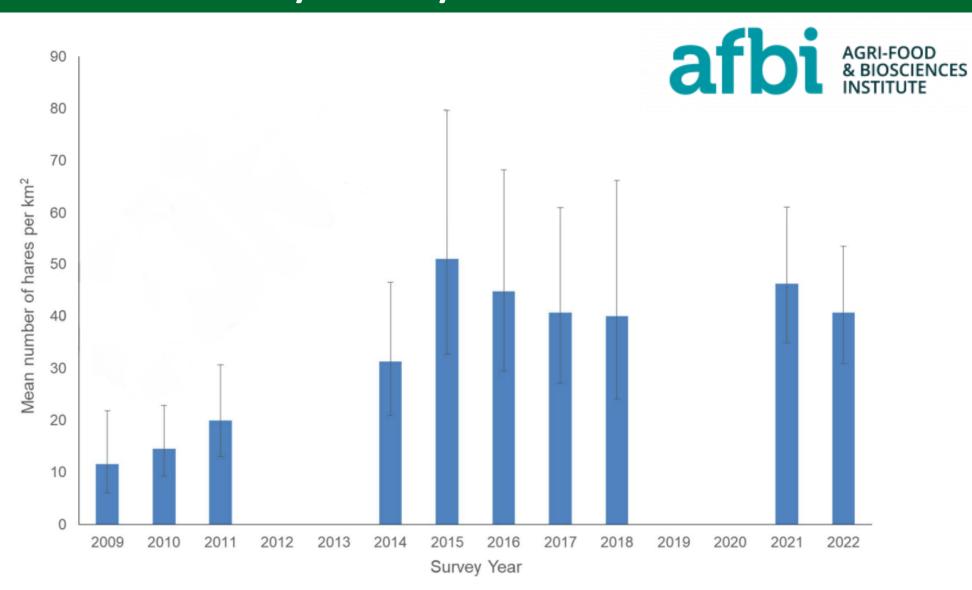


Photo courtesy of Neal Warnock

Mean density estimates for Irish hares in Glenwherry study site









Photos. I. Montgomery

Technologies to increase Biodiversity







Forest to Bog







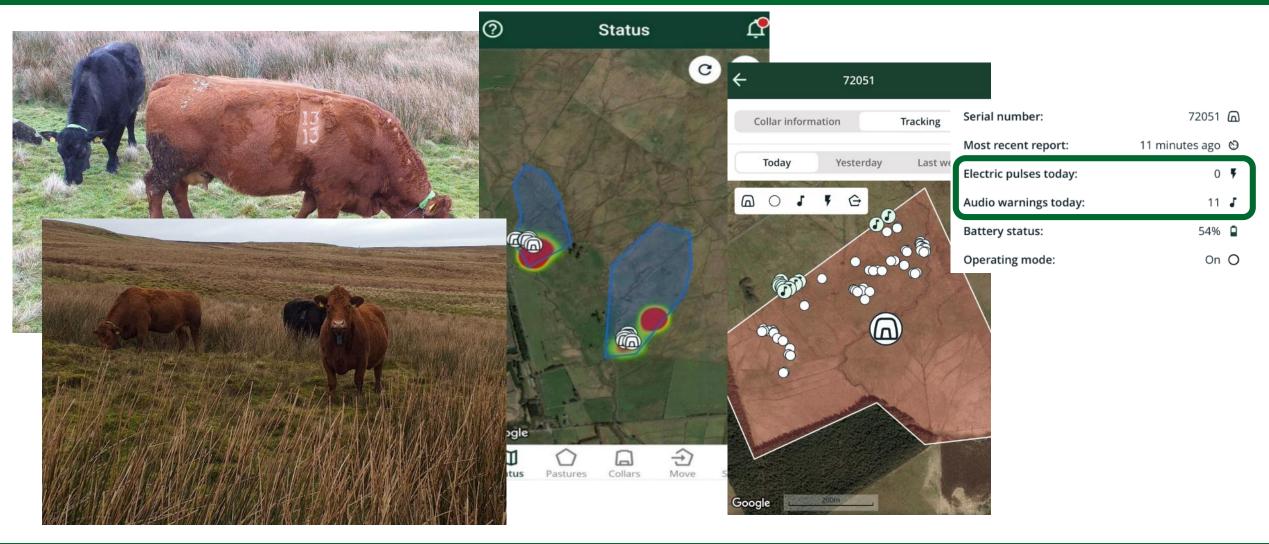
August 2022





Virtual Fencing





Virtual Fencing





- Saving in winter silage
- Reducing NH³ emissions by 10 − 20% of herd
- Improving cow fitness for calving
- Improved habitat condition





Water Resource



Challenges



- Heavy resource
- Sensitivity of publicizing and promot the work



