C5-4: Nutrients an the Food Chain

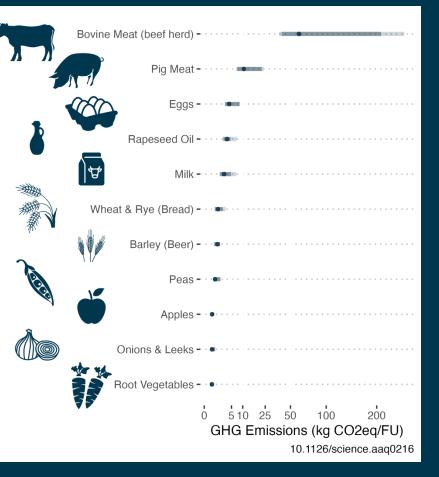
Ben McCormick Nick Roxburgh (JHI) Gary Polhill (JHI)





The Why - Food emissions

Low environmental impacts Contribute to food and nutrition security Healthy Protective of biodiversity Culturally acceptable Accessible Economically fair & affordable





Research Questions

How might food businesses respond to changes in subsidies?

What might be the impact on the supply of nutrients from Scottish agriculture?





What do farms do?

SAC Farm Management Handbook

Budgeting tool with inputs and outputs for different enterprises



Crossbred Ewes

PHYSICAL DATA

	eeds eed of ram	Large crossbred (75-85kg) e.g. Scotch Mule, Mule-cross Terminal Sire			
	Lambing period		Commencing early April Lambs reared (%)		
La	mbing period		150%	160%	170%
La	Lamb crops per ewe (avg)			4.5	4.5
Ra	Ram flock life (seasons)			3	3
			/100 ewes tupped		
Ra	ams (no.)		2.5	2.5	2.5
La	mb numbers:				
	marked		152	162	172
	sold/retained		150	160	170
	sold:	finished lambs	120	140	160
		store lambs	30	20	10
Ewe numbers:					
	culls		17	17	17
	mortalities		5	5	5
	gimmers purchased			22	22
W	ool sales - ewe	es, rams & hoggs (kg)	270	270	270
E١	Ewe concentrate: ME 12.5 MJ/kg DM,			5,000	5,500
	18% CP (kg)				
Fo	Forage: improved grazing (ha)			10.0	10.0
	silage (ha)			2	2
Тс	Total forage (ha)			12	12
Be	Bedding straw (kg/day)			80	80

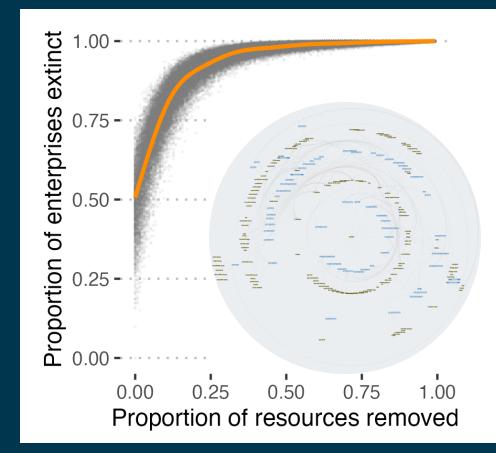
https://www.fas.scot/publication/farm-management-handbook-2022-23/

What could farms do?

Analysis of all the resources that farms use

Farms are constrained by their own resources, their experience and the system





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ABERDEEN

What if..? Scenarios of alternative futures e.g., Consumer demand eg, <u>CCC</u> **Enhanced Conditionality** qv, Agricultural Reform routemap Alternative enterprises eg, alternative crops **Redirect subsidies** eg, World Bank 1495 **UNIVERSITY OF**

