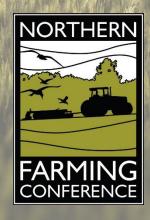
Northern Farming Conference 2025

People, Planning and Profit:

Building a Resilient Future for Farming

Wednesday 5th November





















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Welcome

Samantha Charlton

Northern Farming Conference Committee Chair

Beef & Lamb Sector Director AHDB







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Speaker Session

Chaired By:

Lord Curry of Kirkharle

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NORTHERN



Jeremy Moody

Secretary and Adviser for The Central Association of Agricultural Valuers



Baroness Minette Batters

Former NFU President, farmer and appointed by DEFRA to lead the Farm Profitability Review

















FARM: Food, Agriculture and WHAT WASHING SCHEME Higher Tier FARM Resilience Scheme Wild tiet **Rural Matters** Great British FARM BOOK of home, exports and of home seports and of the ment balanced services. Great of home, exports and property and public petall, our of home balanced score called the core called the core called the called sail, out of the balanced score card Quota anishow Soggithow Sustainable Sustai **₩ELSH** Collapotatine of Mer groups Advanced Nature Groups Voluntary farmer Crown Market Monitoring Working group PAM Resilience Scheme Entry Level

Grocery Code
Adjudicator and
Agricultural
Supply Chain
Adjudicator

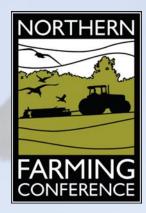
Thank you for listening

Questions?



Panel Questions

Facilitated by



Lord Curry of Kirkharle

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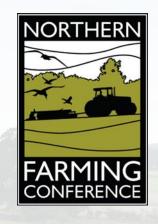
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Samantha Charlton

Northern Farming Conference Committee Chair

Beef & Lamb Sector Director
AHDB



Professor Paul Wilson

Professor of Agricultural
Economics at Nottingham
University and President of the
Agricultural Economics
Association





Resilient Farming Futures?

Professor Paul Wilson

Director, Centre for Food Policy and Foresight and President of the Agricultural Economics Association

With evidence from Sarah Baker, Head of Economics AHDB

Sowing ideas, cultivating solutions





Community



Nutrition





Farming is complex























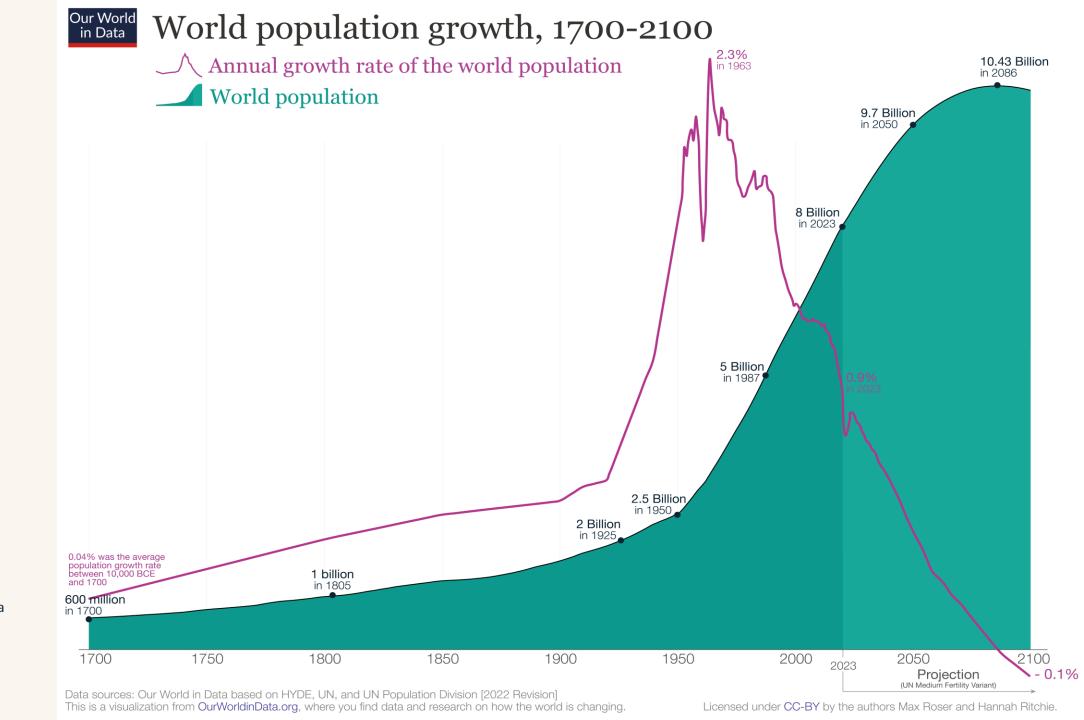
Farming is important





Population growth increase is slowing

Source: our world in data





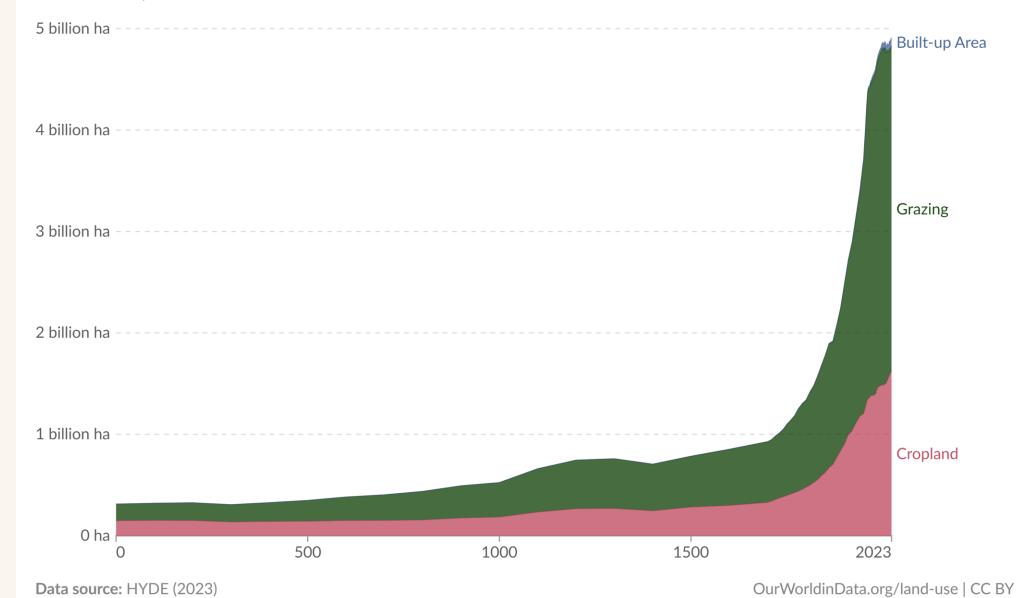
We use more land for agriculture than we have ever done

Source: HYDE (2023) – with minor processing by Our World in Data

Land use over the long-term, World



Total land area used for cropland, grazing land and built-up areas (villages, cities, towns and human infrastructure).





Farm Performance Metric [FPM]?

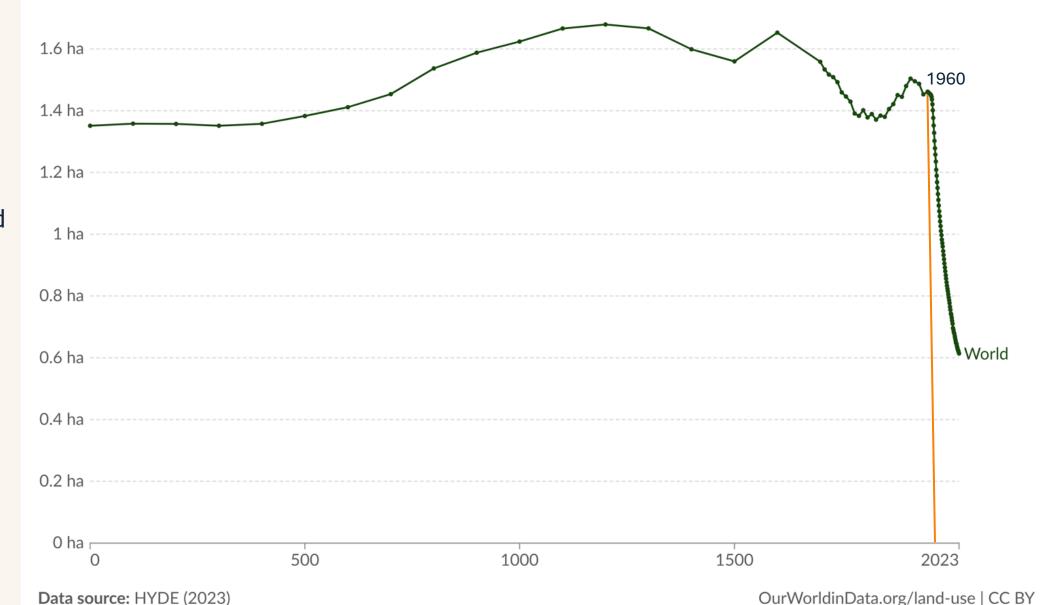
We use less land per person than we have ever done

Source: HYDE (2023) – with minor processing by Our World in Data

Agricultural land use per person



This dataset is showing estimates of the total agricultural land area – which is the combination of cropland and grazing land – per person. It is measured in hectares per person.





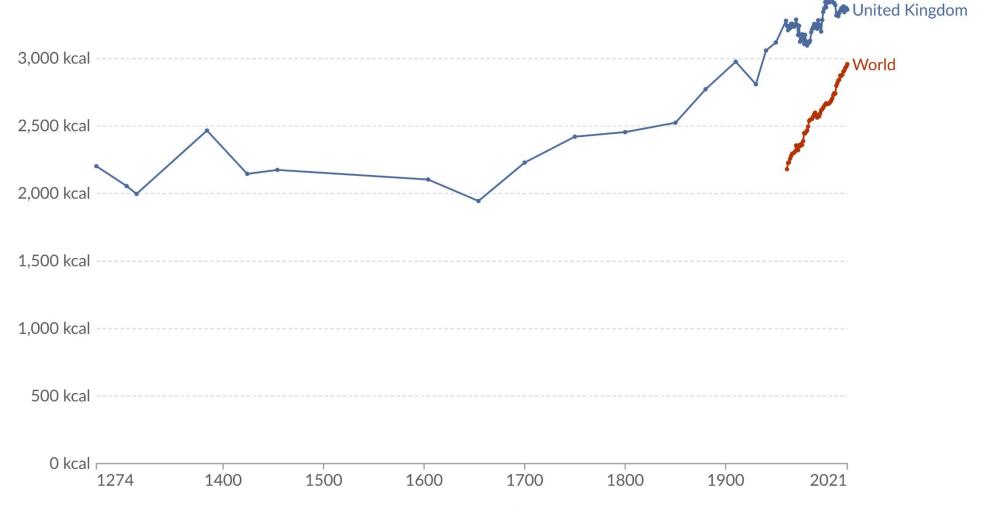
Globally we are supplying the most calories per day ever

Source: Food and Agriculture Organization of the United Nations (2023) and other sources with major processing by Our World in Data

Daily supply of calories per person, 1274 to 2021



Measured in kilocalories per person per day. This indicates the calories that are available for consumption, but does not necessarily measure the number of calories actually consumed, since it doesn't factor in consumer waste.



Data source: Food and Agriculture Organization of the United Nations (2023) and other sources OurWorldinData.org/food-supply | CC BY



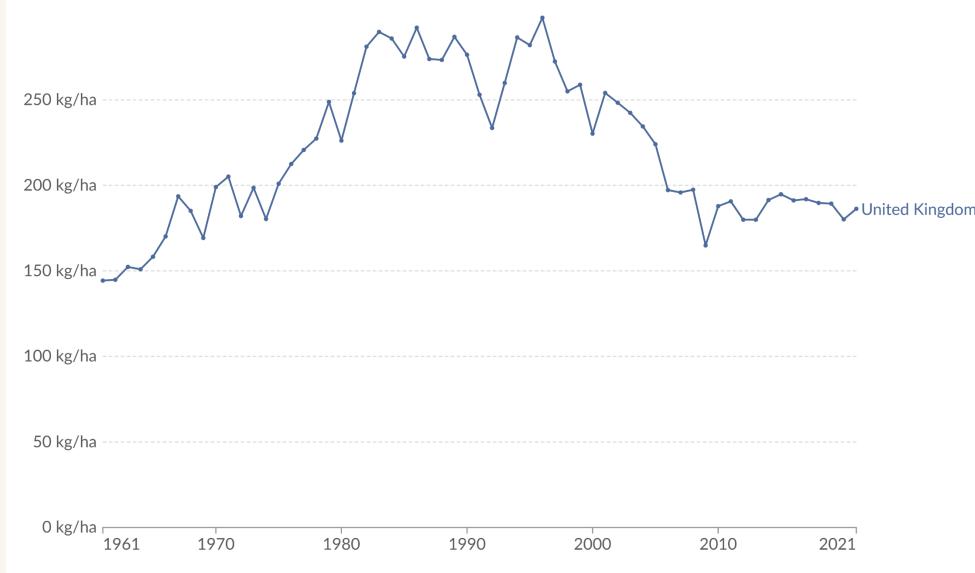
In the UK
we are
applying
much less
fertiliser
per ha than
30 years
ago

Source: Food and Agriculture Organization of the United Nations (2023) – with major processing by Our World in Data

Fertilizer use per hectare of cropland, 1961 to 2021



Application of all fertilizer products (including nitrogenous, potash, and phosphate fertilizers), measured in kilograms of total nutrient per hectare of cropland.



Data source: Food and Agriculture Organization of the United Nations (2023)

OurWorldinData.org/fertilizers | CC BY



2022

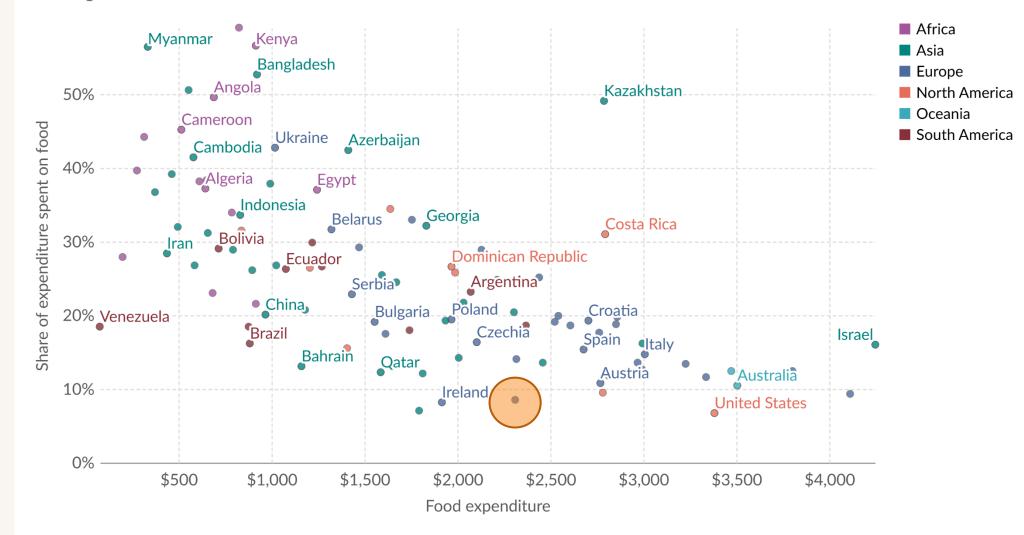
Developed country expenditure on food is low – driven by agricultural advances that have allowed economic development

Source: USDA Economic Research Service (ERS) (2023)

Share of expenditure spent on food vs. food expenditure per person,



Food expenditure only includes food bought for consumption at home. Out-of-home food purchases, alcohol, and tobacco are not included. Food expenditure is expressed in US dollars per person. It is not adjusted for inflation or differences in the cost of living between countries.



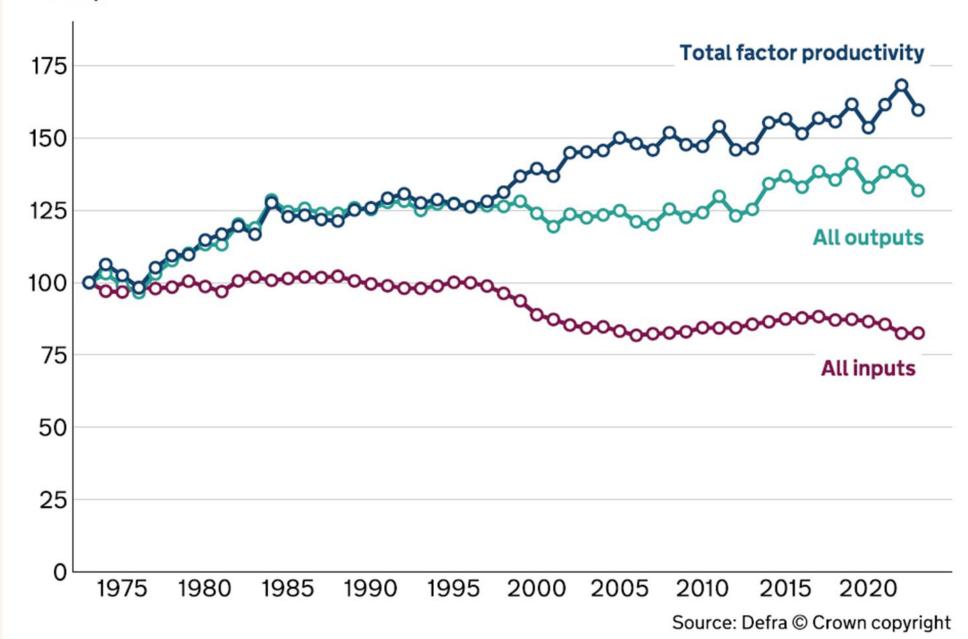
Data source: USDA Economic Research Service (ERS) (2023)



TFP growth driven by lower inputs

Source: Defra https://www.gov.uk/government /statistics/total-factorproductivity-of-the-agriculturalindustry/total-factorproductivity-of-the-unitedkingdom-agricultural-industryin-2023

Figure 2: Long term trends in TFP of the UK agricultural industry (1973 = 100)

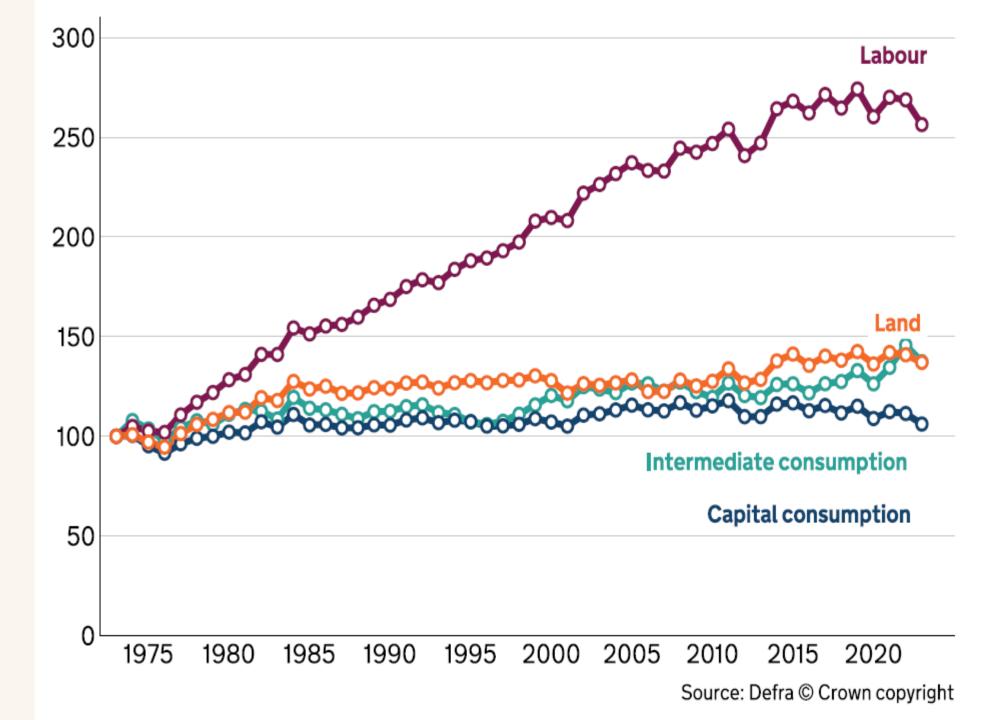




TFP growth driven by lower labour use

Source: Defra

https://www.gov.uk/government/statistics/total-factor-productivity-of-the-agricultural-industry/total-factor-productivity-of-the-united-kingdom-agricultural-industry-in-2023

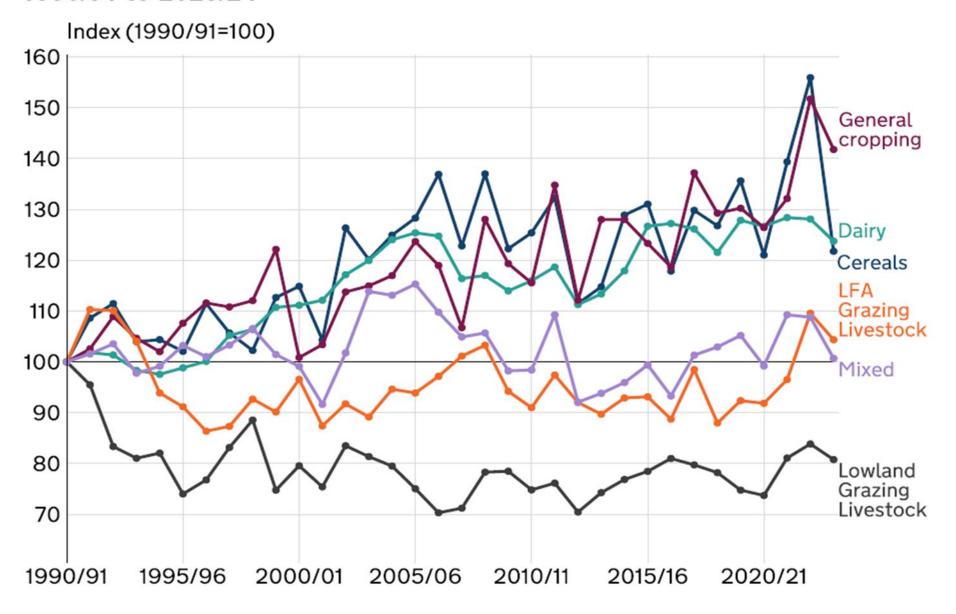




TFP growth varies by farm type – labour productivity is key

Source: Defra https://www.gov.uk/government /statistics/total-factorproductivity-for-england-byfarm-type/total-factorproductivity-for-england-byfarm-type-199091-to-202324statistical-notice

Figure 4: Total Factor Productivity for farms in England by farm type, 1990/91 to 2023/24



Source: Defra, Farm Business Survey















What about farm level profit?

What are the top performers doing?

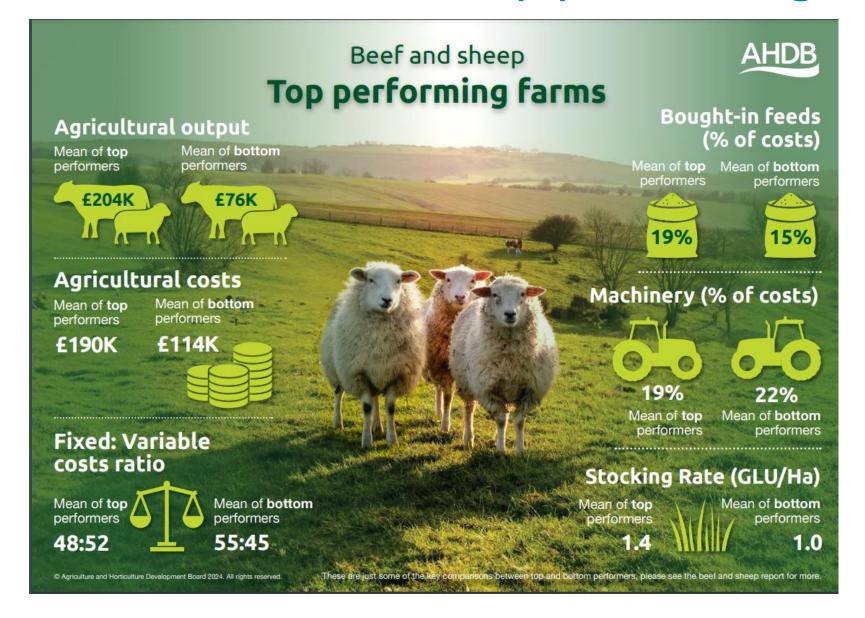




- 1. Minimise overhead costs
- 2. Set goals and budgets
- 3. Compare yourself with others and gather information
- 4. Understand the market
- 5. Focus on detail
- 6. Have a mindset for change and innovation
- 7. Continually improve people management
- 8. Specialise



Characteristics of top performing farms





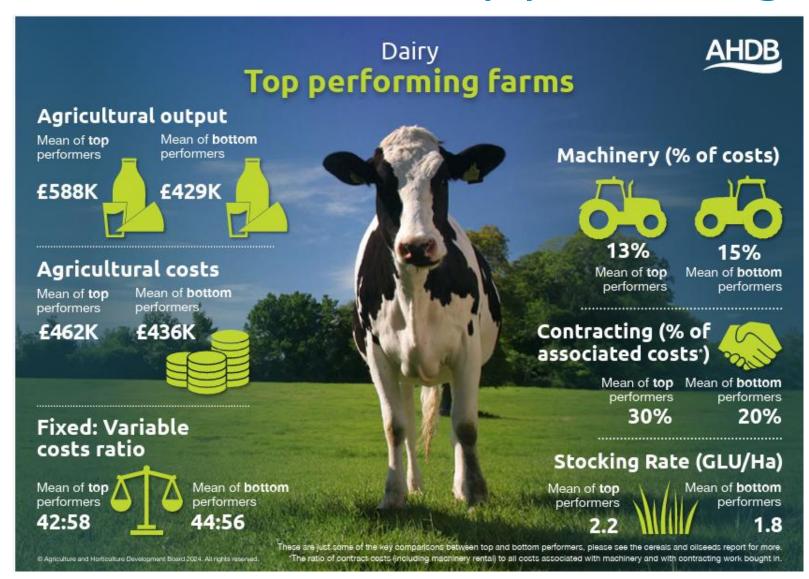
Eight comparisons between top and bottom performing beef and sheep farms

- 1. Economic size
- 2. Fixed and variable costs
- 3. Tenure
- 4. Unpaid labour
- 5. Stocking rate
- 6. Diversification
- 7. Contract rearing out
- 8. Proportion of fatstock

Characteristics of top performing farms



£42,800



Dairy farm income Mean of top Mean of bottom £126.500 performers performers difference

Eight comparisons between top and bottom performing dairy farms

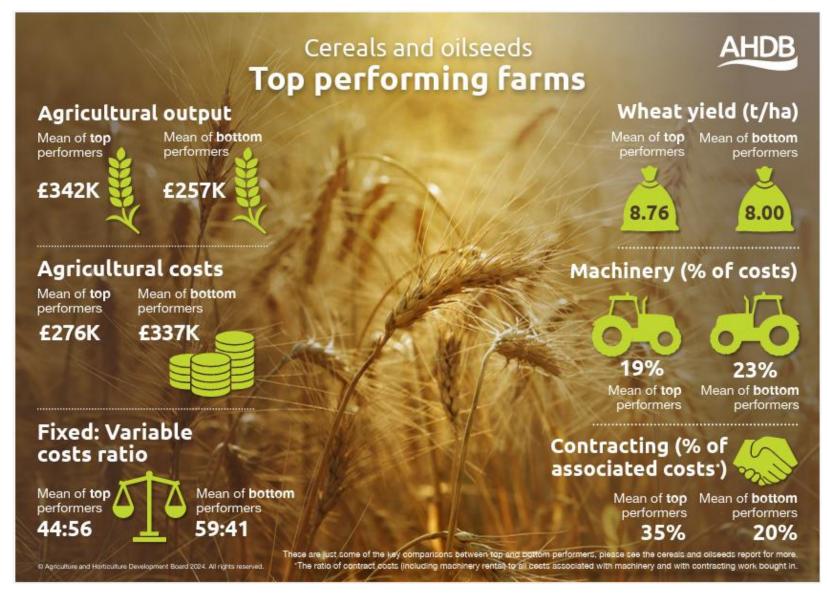
- Agricultural costs
- Agricultural output
- Contracting
- Farm area

£169.300

- Stocking rate
- Mix of enterprises
- Milk price
- Agri-environment schemes

Characteristics of top performing farms





Cereals and oilseeds farm income

Mean of top performers £169.440

£104,060 difference Mean of **bottom** performers **£65,380**

Eight comparisons between top and bottom performing cereals and oilseeds farms

- 1. Agricultural costs
- 2. Contracting
- 3. Debt
- 4. Agri-environment schemes
- 5. Agricultural diversity
- 6. Wheat price and yield
- 7. Agricultural output
- 8. Attitude to change



Success? Perhaps only in part



Net Zero -Complexities

- Agriculture large impact on global GHGs
- > Extensive farm level variation
- System and product GHG variation
- > Scope 1, 2, 3 emissions
- Agriculture offers the "big win" to reduce GHGs – Scope 3 for the Food Industry
- Ag Input Carbon Border Adjustment Mechanisms (CBAM)





Ag-CBAM

Agricultural Carbon Border Adjustment Mechanism (**Ag-CBAM**) needed for level playing field

Ag-CBAM to support global **Net Zero ambitions**

Climate agreements need to include carbon consequence of food consumption



Policy Brief 2024 Centre for Food Policy and Foresight

Ag-CBAM Critical to Meet Net Zero Goals

Executive Summary

Agriculture accounts for nearly one-third of global greenhouse gas emissions. Under the Climate Convention, countries have committed to net zero targets to reduce these emissions.

However, there is a growing risk of carbon leakage, where agricultural production—and its associated emissions—shifts to countries with weaker climate policies. This occurs because emissions are measured where food is produced, not consumed, undermining mitigation efforts.

An Agricultural Carbon Border Adjustment Mechanism (Ag-CBAM) can help address this issue by ensuring fairer competition for domestic producers, subject to carbon pricing while discouraging the export of unregulated emissions-intensive products to regulated regions.

This policy brief highlights why Ag-CBAM should be part of international climate agreements and provides key recommendations for COP29 policymakers to effectively mitigate carbon leakage in the global food sector.

Policy Recommendations

- Incorporate Ag-CBAM into climate agreements: Ensure Ag-CBAM is formally recognized to support global net zero efforts.
- Target high-leakage sectors: Focus on emissions-intensive products like livestock and fertilizer-intensive crops, where carbon leakage is greatest.
- Use transparent carbon pricing benchmarks: Implement sector-specific benchmarks to assess GHG emissions in imports, ensuring fair competition and incentivizing low-emission practices abroad.
- Foster global collaboration: Harmonize carbon pricing mechanisms across countries to prevent market distortions and ensure fair competition.
- Support developing countries: Provide assistance and differentiated benchmarks to help them transition to lower-emission practices.

Professor Paul Wilson's expertise in sustainability metrics is delivering new thought-leadership approaches to how we balance food production and environmental protection.

paul.wilson@nottingham.ac.uk







Farming just got more complex

























Sustainable Food Futures (SFF) Can we simplify?

Sustainable

Carbon, Biodiversity, Water, Soil

Food

Nutritious, Available, Production Growth Security

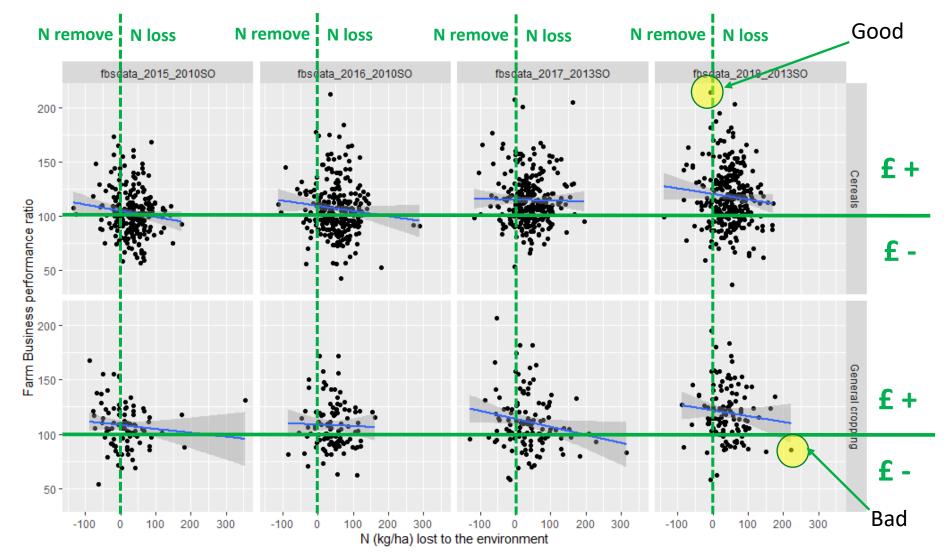
Futures

Affordable, Farm profitability, Social acceptance



What's the evidence we can deliver on profit **and** the environment?

How is farm gate N balance related to economic performance?



Gray Betts, C., Hicks, D., Reader, M. and Wilson P. (2023). Nitrogen balance is a predictor of farm business performance in the English Farm Business Survey, *Frontiers in Sustainable Food Systems*, **7**:1106196 https://doi.org/10.3389/fsufs.2023.1106196

General Cropping

Farms that lose most N to environment (>60kg/ha) are poorer £ performers

Own **FACTS advice** leads to **better £ performance**

No link between N-loss to environment and source of fertiliser advice

Resource Use Efficiency Matters and is a win-win opportunity.



Confused?



Let's simplify







Paul Wilson's 10 key drivers of farm business performance











- > Typically larger farm size
- > Educational attainment
- > Information seeking
- > Environmental objectives
- > Specialisation
- ➤ Focus on Margins (*not yields*)
- Cost control
- > Attention to detail
- > Open to new opportunities
- Business planning























Thank you



bb-food-systems@nottingham.ac.uk



Food Systems Institute at the University of Nottingham



@foodsystemsinst

Sowing ideas, cultivating solutions



Sustainability

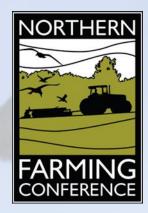


Community



Nutrition





Questions

Facilitated by

Samantha Charlton

Northern Farming Conference
Committee Chair

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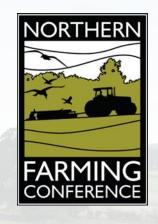
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Matt Wallace

Northern Farming Conference Committee Vice Chair

Agricultural Relationship Manager HSBC



Panel Questions

Facilitated by

Jenny Oglesby

Farm Trader & Small Seed Lead, ADM



Farmer Panel

Duncan Morrison

Livestock (Aberdeen Angus) farmer, Aberdeenshire

Graham Rutherford

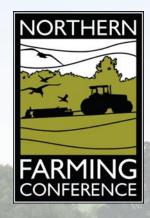
Northumberland beef and lamb farmer, Longhorsley

Helen Marsden

Livestock farmer, Dumfriesshire

Thomas Todd

Farmer at Barelees Farm,
Cornhill on Tweed



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Matt Wallace

Northern Farming Conference Committee Vice Chair

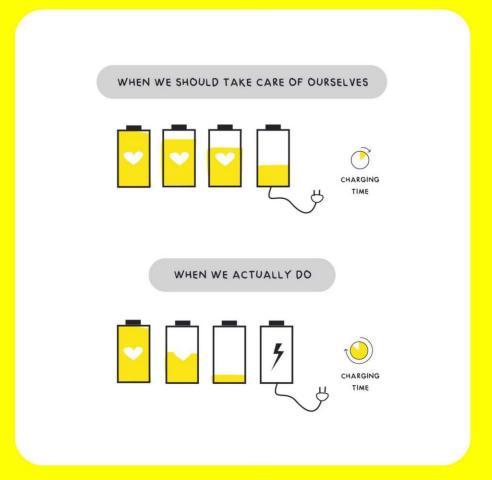
Agricultural Relationship Manager
HSBC





One small habit changes your day.

Kat Thorne
THE MORNING GAMECHANGER



Jamagine the feeling you would experience after being on a week's holiday...

Now imagine how long that feeling would last for...

What if there was a way to experience that energy, positivity and resilience for the other 51 weeks of the year?

Many organisations are working hard to improve employee performance and resilience.

But PEOPLE are still stressed.....
94% of them.



The UK scored second worst out of 71 countries for mental wellbeing in the latest global findings.

MENTAL STATE OF THE WORLD REPORT, 2023



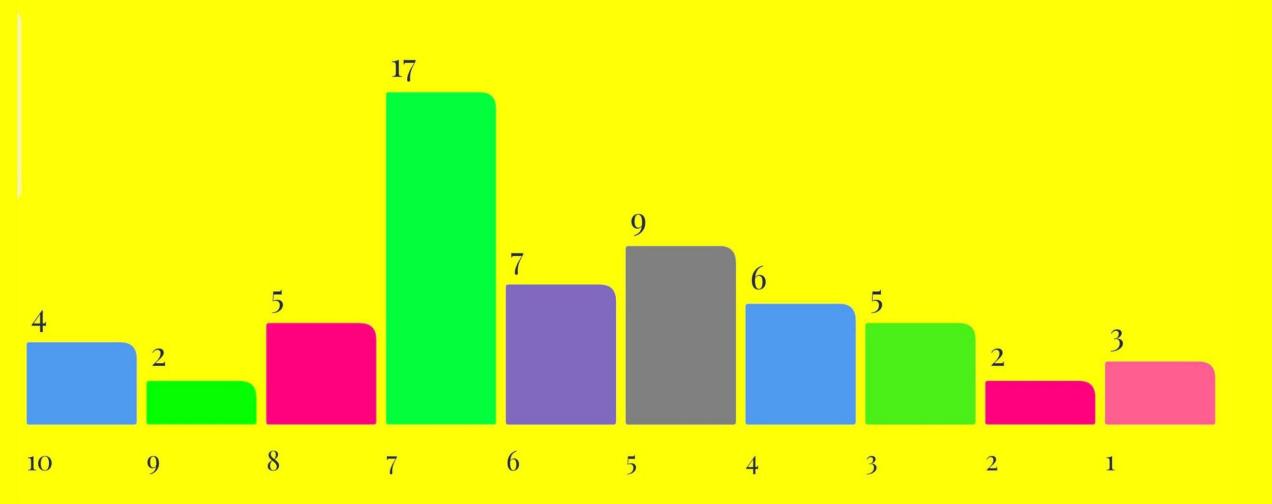
What was your first thought you had this morning?



Life is a rollercoaster.

The actual answer to a mentally strong and resilience workforce starts with one small positive habit change.

How well are you looking after yourself?





The better people look after themselves the higher they perform at work and home.



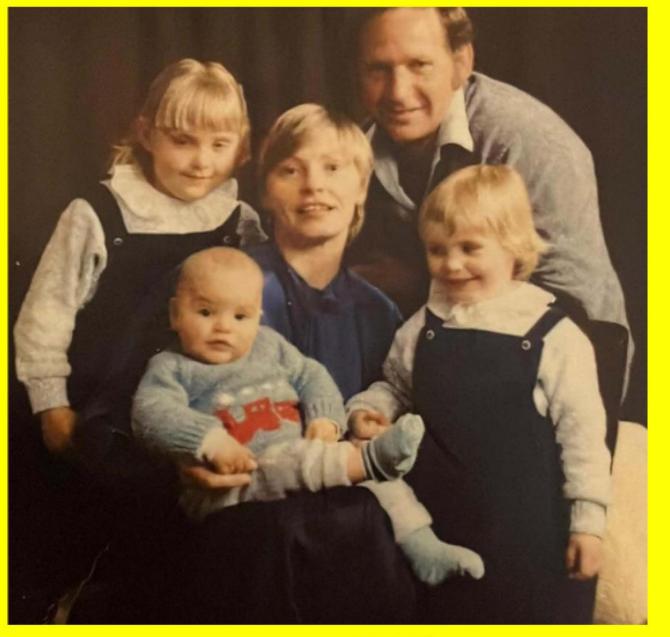
Autopilot



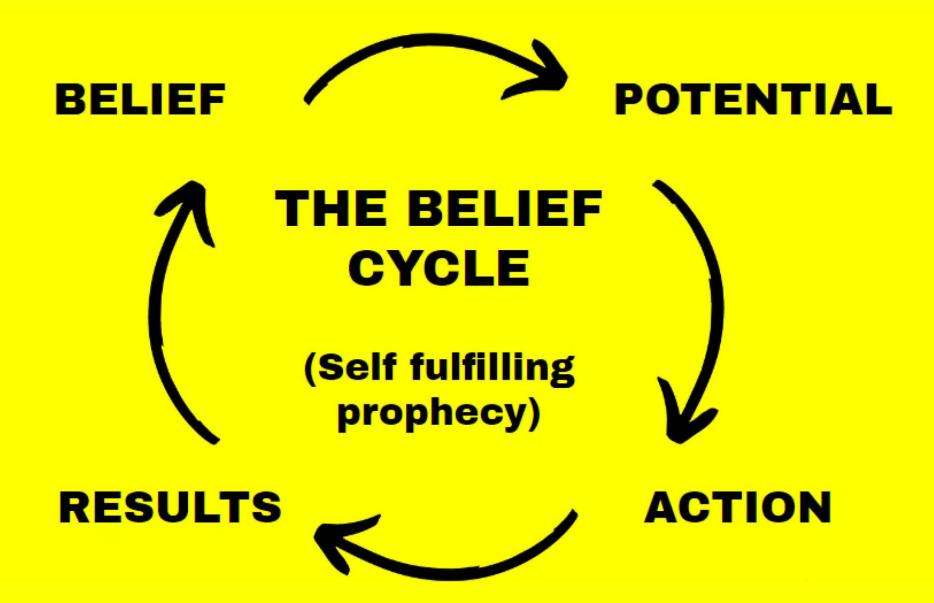
Kat Thorne
THE MORNING GAMECHANGER

Your life is the result of your habits.

Where it all starts...



Kat Thorne
THE MORNING GAMECHANGER

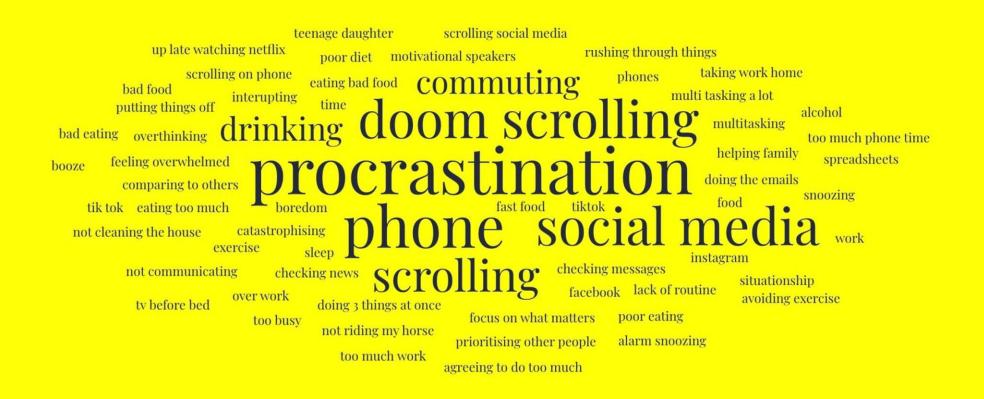


Self-limiting beliefs



Imagine a day in your life...

Which habits negatively impact your energy and performance?





Which habits positively impact your energy and performance?





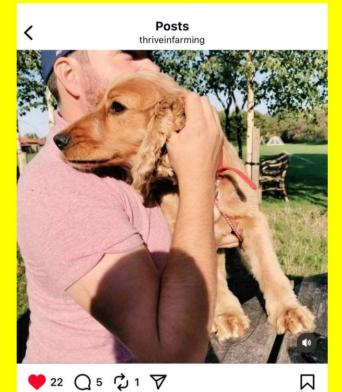
What you can control

What you can't control

Did you know 80% of people who own smartphones check their devices within 15 minutes of opening their eyes?



The 10 minute habit advantage



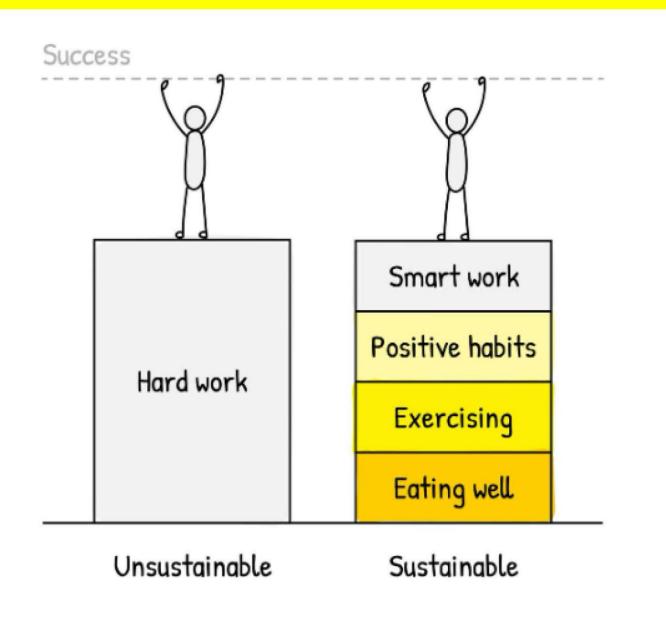
thriveinfarming 3 Simple things you can do this evening if the week ahead feels overwhelming...

- 1. Write shit down. Get the thoughts out of your head and on paper. Map out the week. Time block important stuff (that can be WHATEVER is important to you, not just work stuff).
- 2. Tell your partner, parents, children etc what you hope the week will look like. What it will look like if everything pans out how you want it too. Getting others on board, and aware of your vision, will help keep you accountable and more likely to get the support you need.
- 3. Finish the weekend with a solid last couple of hours. Put the phone away. Read. Walk the dog. Exercise. Wind down in the garden, shoes off and connected to the ground.





Sharp Energetic Positive Productive Focused





Home for your phone



Read 10 mins



Healthy breakfast



10 mins of movement



Set bedtime

One small habit change

Kat Thorne
THE MORNING GAMECHANGER

What is the one small habit change you'd like to make?

Less screen time 10 minute kitchen disco 10 minutes of movement 10 minute run 1 minute plank Eat cake Chris Hemsworth Early beftime Less alcohol, more exercise Food Home for phone Reading before bed Eat more fruit Phone out of bedroom Exercise



What impact do you think it will have?

Feel brighter	Better abs	Better sleep, less anxiety
Give me a sense of achievement	More energy	Feeling good
More energy	More energy	Less sluggish
Happy wife happy life	I'll be happier	More energy.
Healthier lifestyle and work life	Will live longer	More focussed

Kat Thorne
THE MORNING GAMECHANGER



THE BETTER PEOPLE LOOK AFTER THEMSELVES THE HIGHER THEY PERFORM AT WORK AND HOME.

ONE SMALL CHANGE IMPACT



One Small Habit = 15% increase in productivity

- Priority List = 20%
- 30 second cold shower = 30%
- Digital detox before bed = 30%



One small habit will change your day.

Your week.

Your month.

Your year.

Your life.

You only get one.





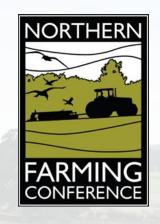
the_morning_gamechanger

LET'S BUILD A
RESILIENT.
FOCUSED.
HIGH-PERFORMING
TEAM.
TOGETHER.









Scan the QR code to complete our quick feedback survey.

Every entry will be entered into a prize draw to win a £50 voucher!









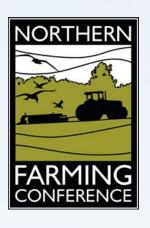












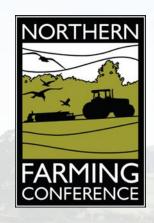
Thank you

Samantha Charlton

Northern Farming Conference Committee Chair

Beef & Lamb Sector Director AHDB





Thank You For Attending















