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Grain Market update & Selling strategies



**Julian Bell
Principal Consultant
SRUC and Agrecalc Ltd**

A quiet year ahead?

Ten events that could derail the global economy in 2024

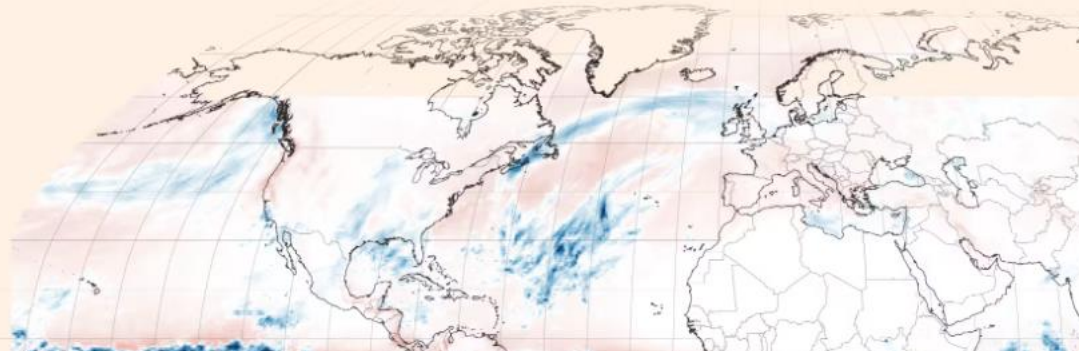
At the start of 2023, economists were predicting full-scale meltdown, which didn't materialise. But does the threat loom as large? By *Matthew Lynn*



El Niño heralds turbulent start to 2024

Unusually warm sea temperatures fuel wind and rain around the globe with n forecast to come

Many areas experience heavy rainfall for the time of year



BBC – East Yorkshire Farmer 75% of land underwater



RICHARD MADDEN / BBC

East Yorkshire farmer Fiona Wilson said 75% of her land was underwater

Sources: Telegraph, Financial Times, BBC



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What is your sales strategy in 2023/24?

Put your hand up if you are A, B, C or D.

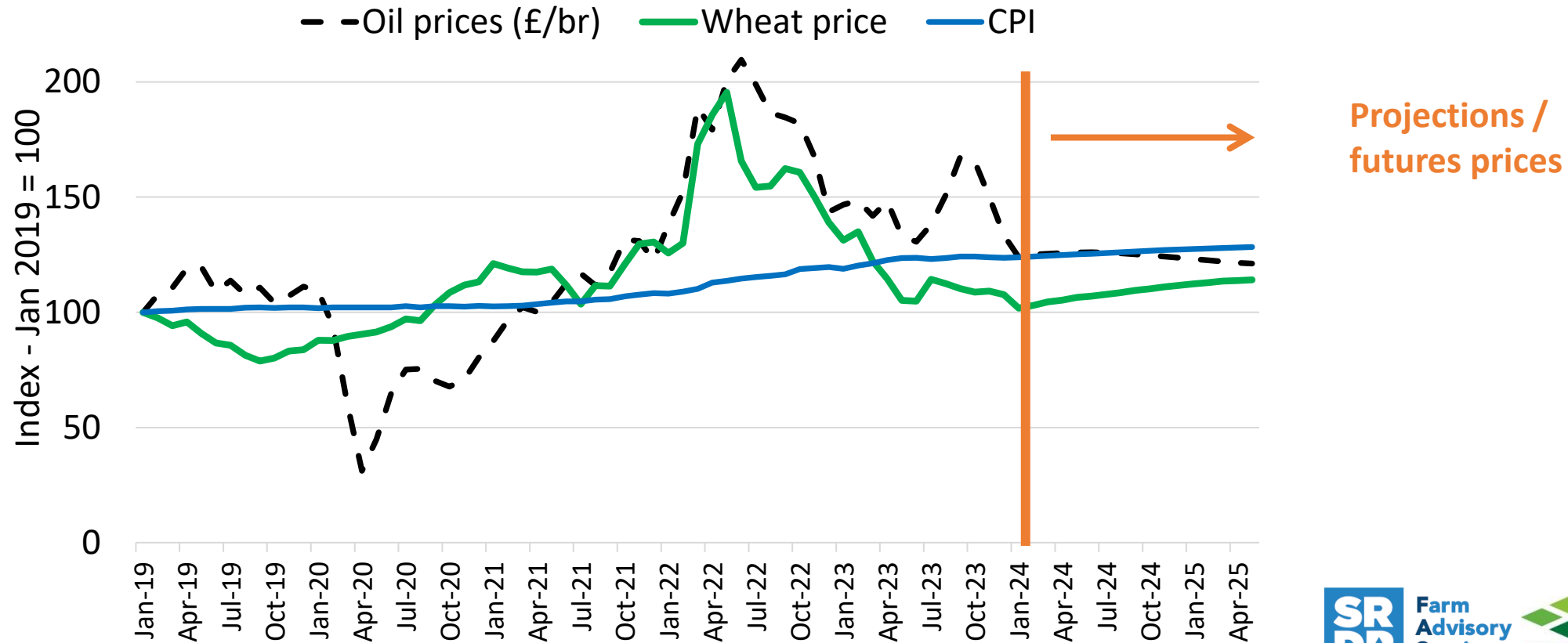
A	B	C	D
In The Shed	Go Early	Little & Often	50:50
Sell All AFTER Harvest	Sell All BEFORE harvest	Sell 1/3 BEFORE & 2/3 AFTER harvest	Sell 50:50 BEFORE / AFTER harvest

Cereal market outlook

- 1) What is the current market situation
- 2) What factors may be important in the year(s) ahead?
- 2) How do different Sales strategies affect returns?

World inflationary pressures easing – energy and grains – interest rates to fall too

Global commodity price barometers
(January 2019 = 100)



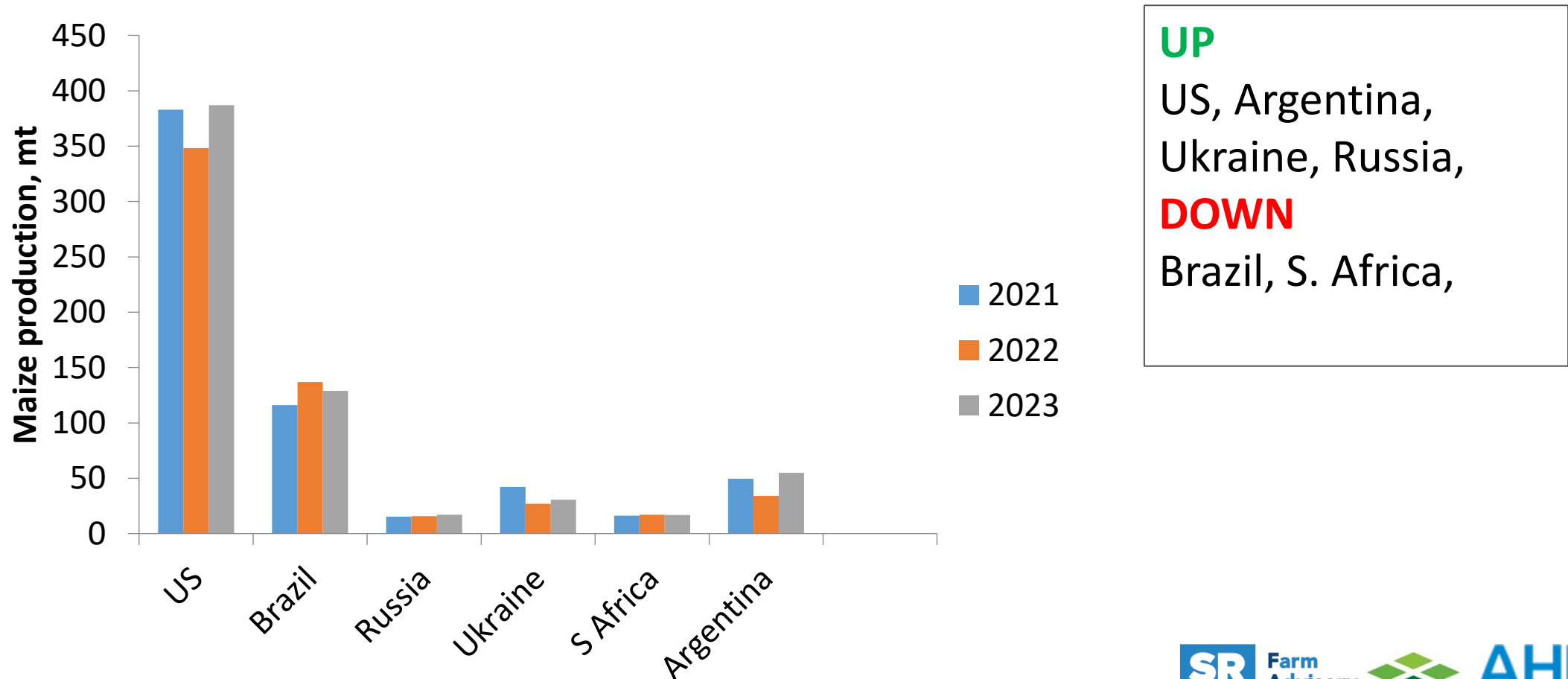
Sources: AHDB, UK Statistics, Various * (Consumer Price Index)



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Maize Exporters - production up +56mt led by US +39mt, Arg +21mt, Braz -8mt



Source: USDA



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World maize prices down **-£75/t (-34%)** in last year – sets floor for world cereal market



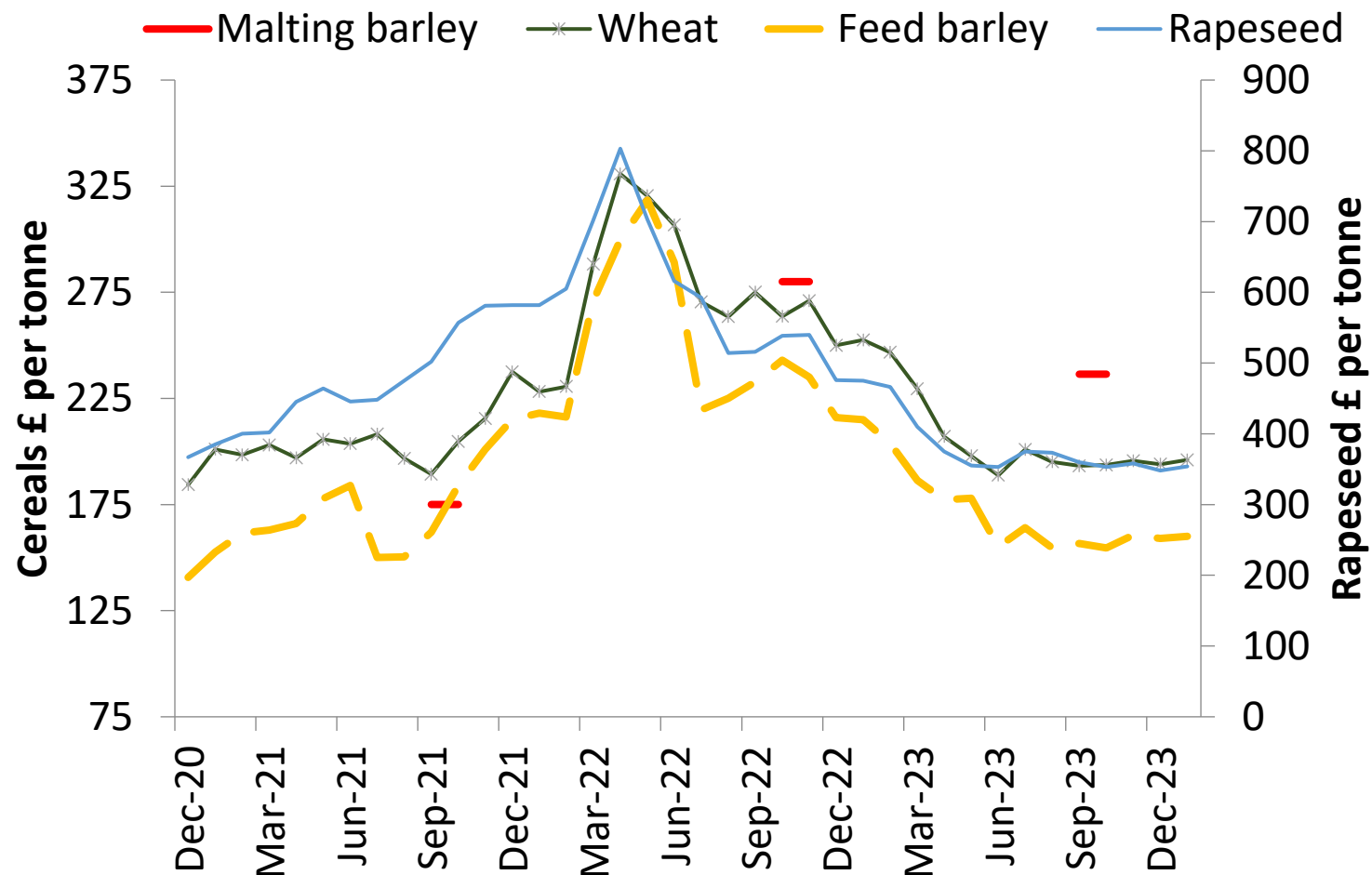
Source: AHDB



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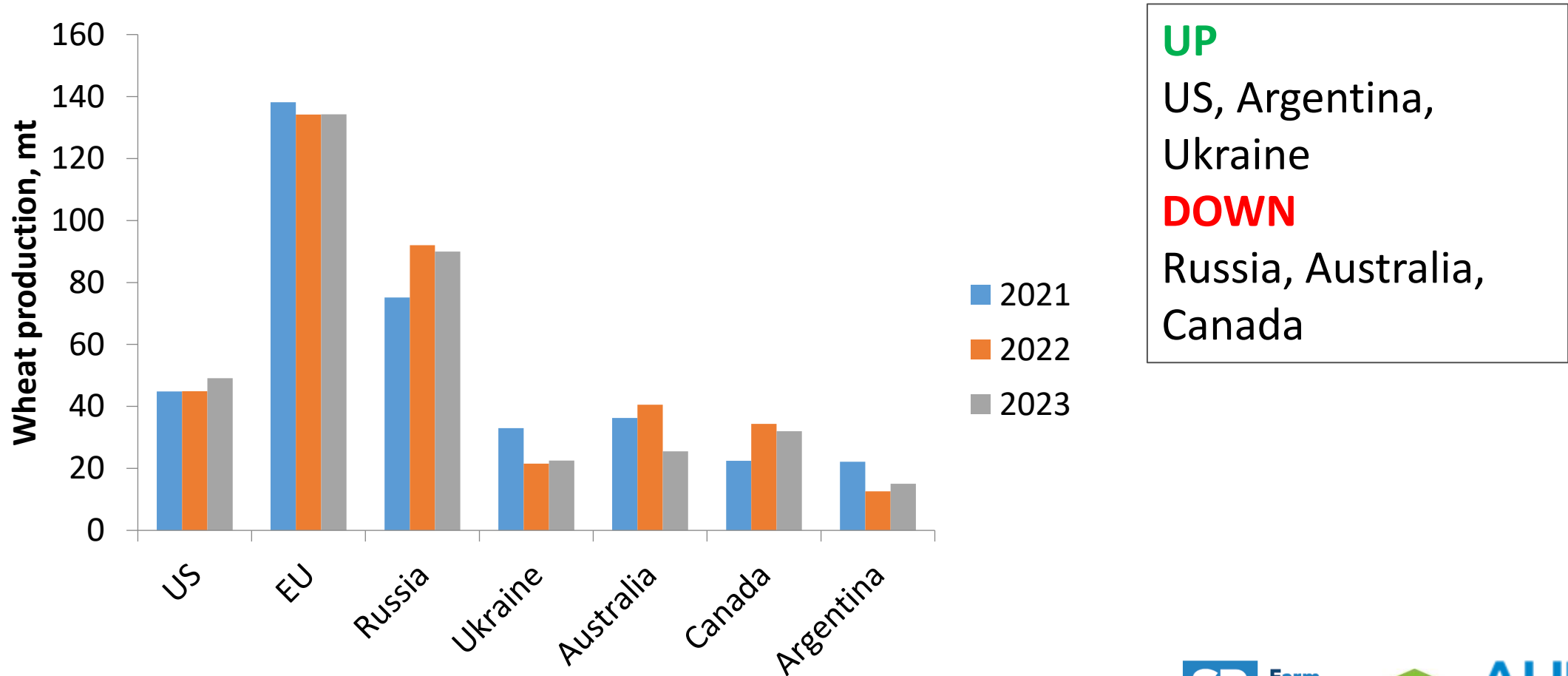
Scottish grain and oilseed spot prices in last year – down **-16%** (malt barley) to **-23%** (feed barley)



Price changes Jan 23 - Jan 24

- wheat
-£56/t, -21%
- rapeseed
-£121/t, -22%
- feed barley
-£55/t, -23%
- malting barley (hvst px)
-£42/t, -16%

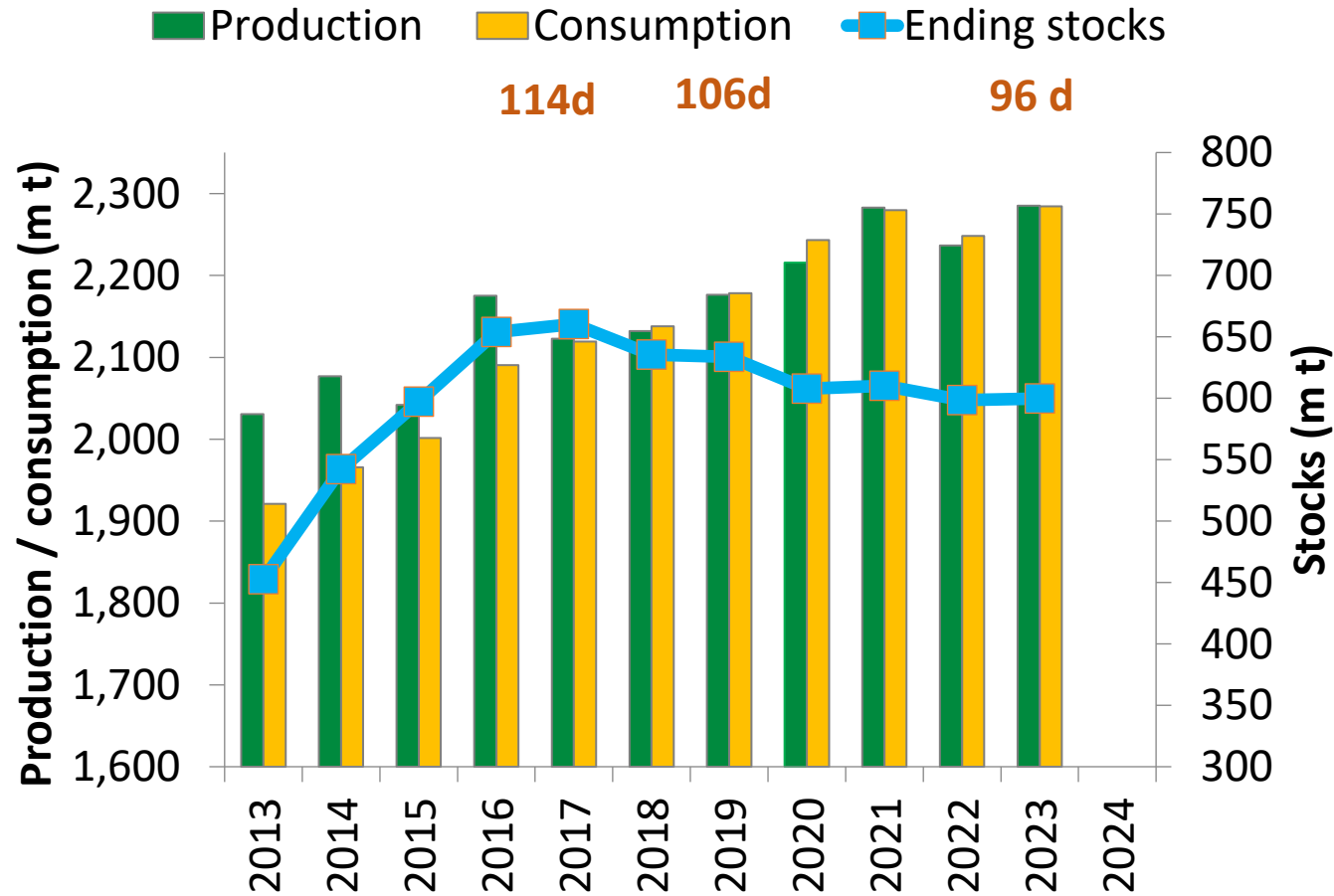
Wheat Exporters - production down -11.7mt Led by Oz -15mt, Can -2.4mt, US +4.2mt, Arg +2.5mt



Source: USDA

World grain S&D 2023 – crop **+48mt** (vs **+82mt** projected in June), stock-to-use **-1.4 days**

China holds
44% of
world's
grain stocks
263mt/
599mt



2023-24 DECEMBER

Crop **+48mt**
Demand **+36mt**
Stocks **+1mt**
Stock to use **-1.4 days**

2023-24 JUNE

Crop **+82mt**
Demand **+46mt**
Stocks **+19mt**
Stock to use **+1.1 days**

Source: USDA



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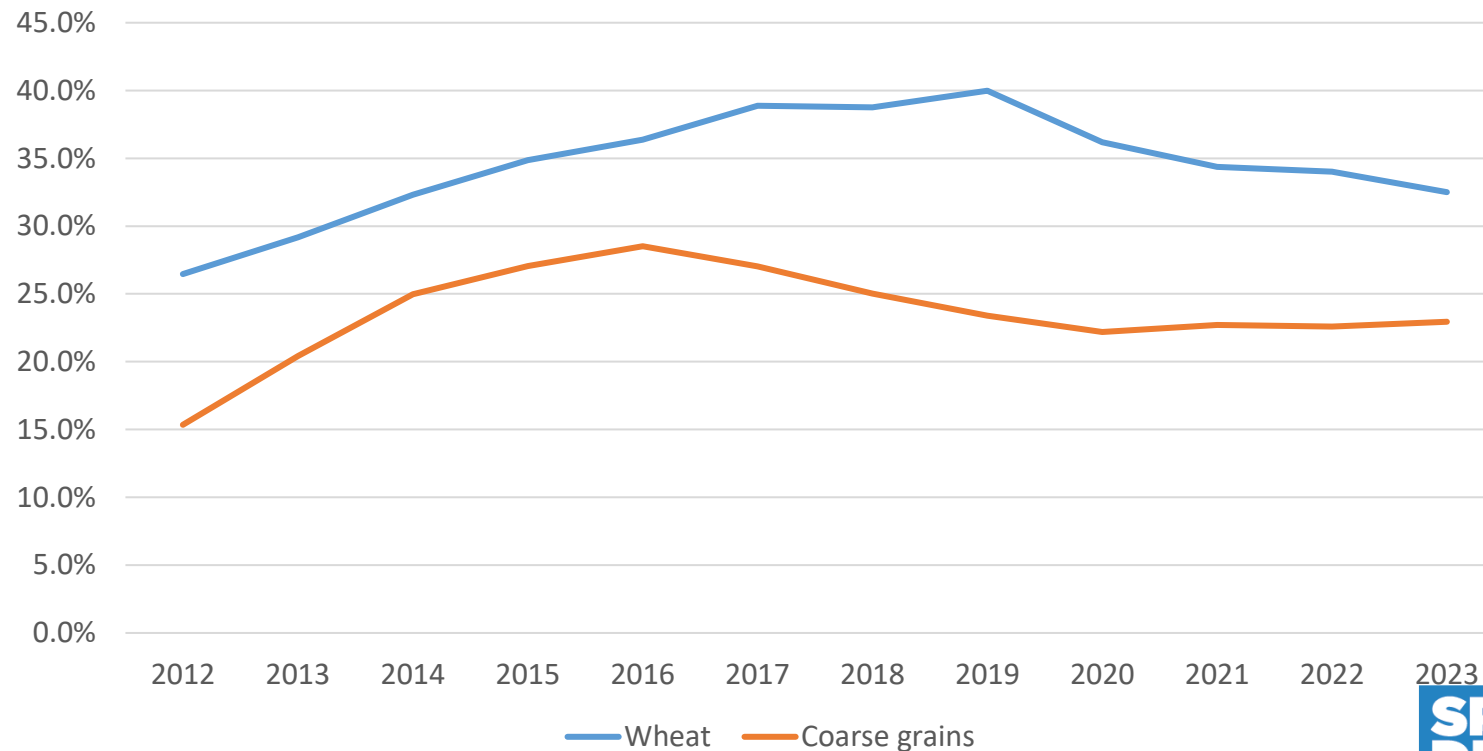


Grain stocks to use

Wheat = lowest in 9yrs,

Feed grain = highest in 4yrs – only just!

World grain stock to use ratios



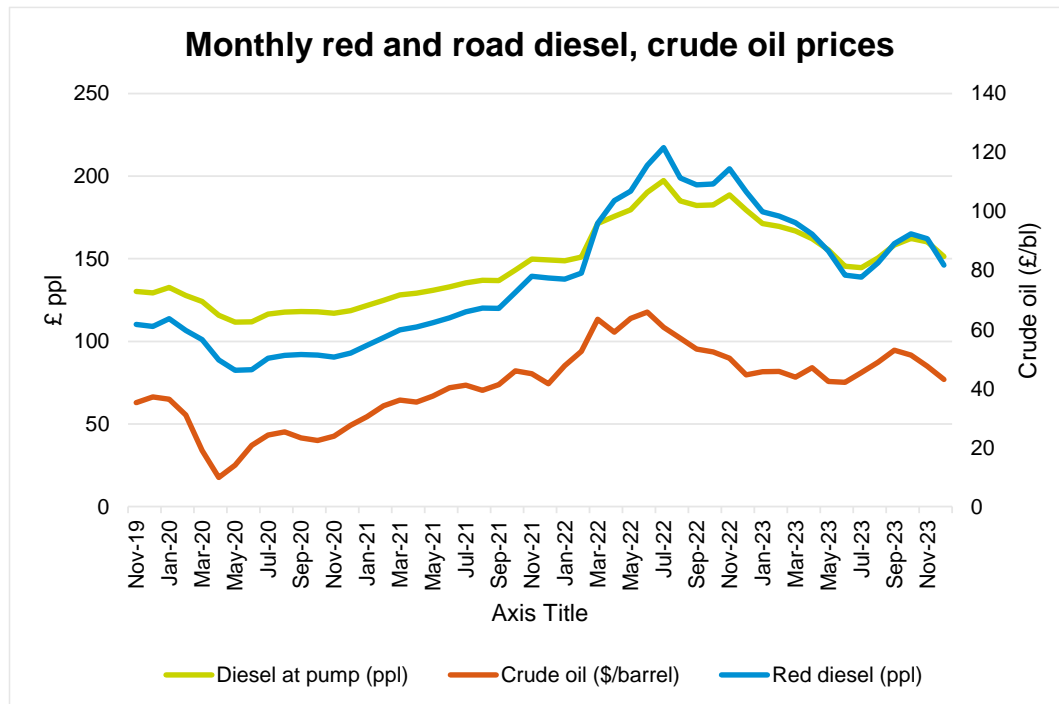
Source: USDA



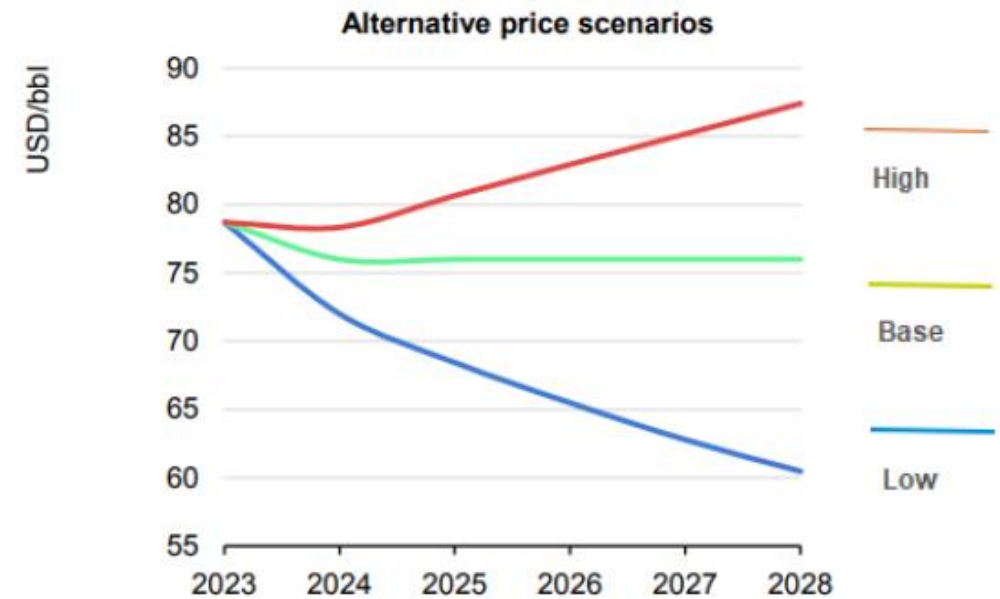
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Crude oil is trending down – as US, Brazilian and Guyana output surges, OPEC loses its stranglehold.
Energy transition – renewables, efficiency, EV's, batteries - could mean peak oil demand by 2025



Source: AHDB



Source: IEA, Oil 2023



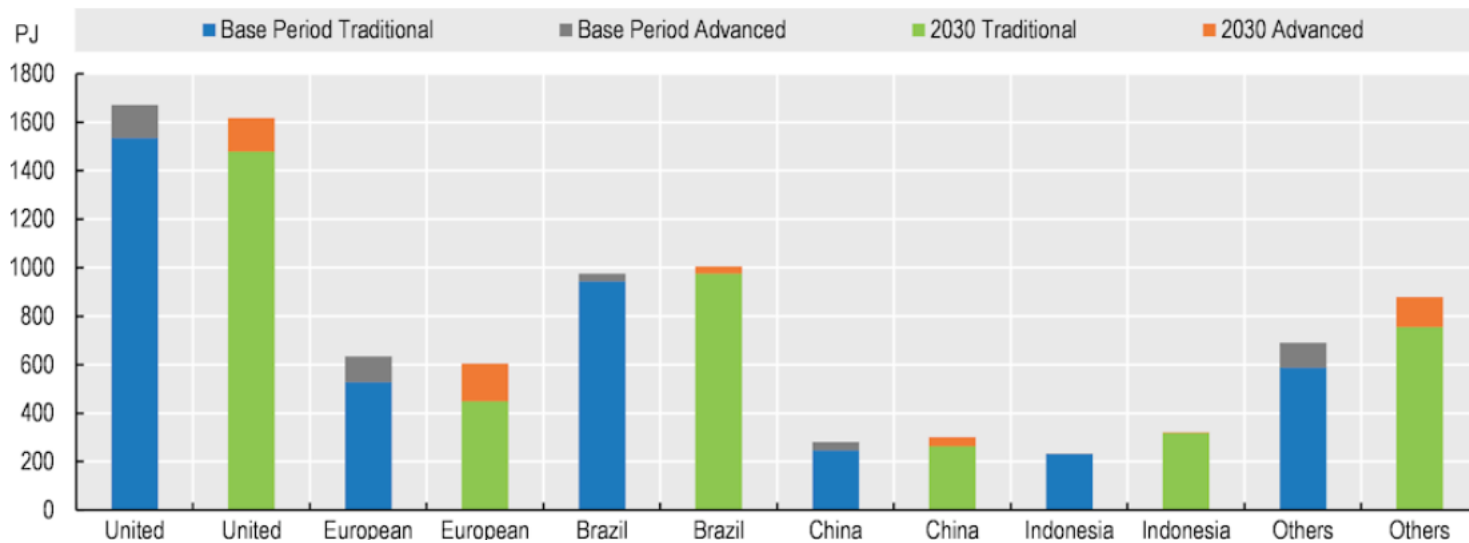
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Biofuels – stable to modest growth to 2030

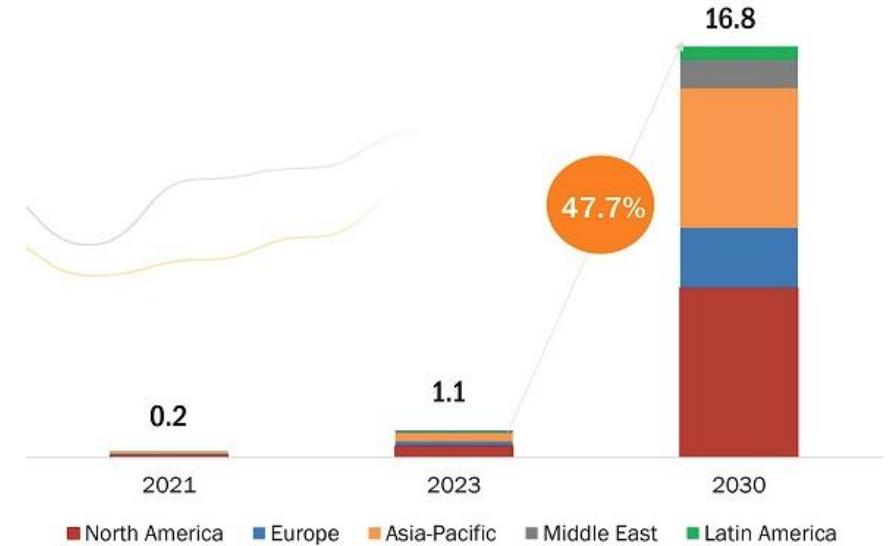
Shift away - from food crops - to other crops / waste & Sustainable Aviation Fuel – but they still need land!

Figure 9.3. World biofuel production from traditional and advanced feedstock



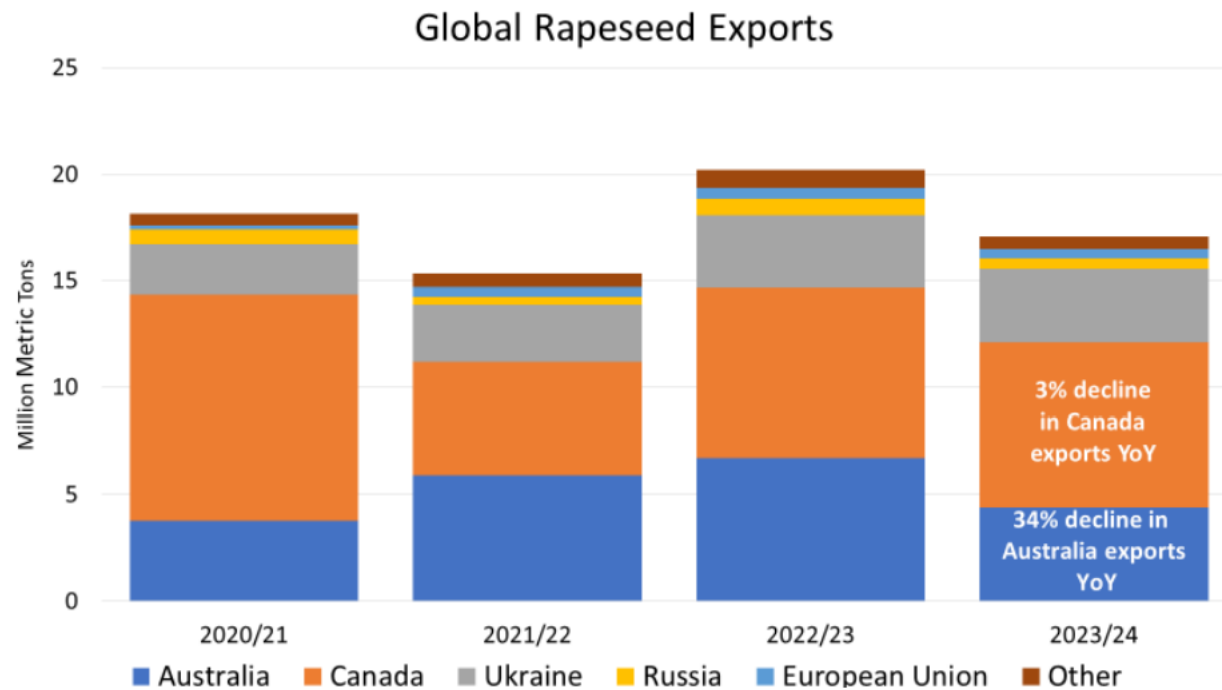
Source: OECD

Sustainable Aviation Fuel Market \$Bn



Source: Markets and Markets

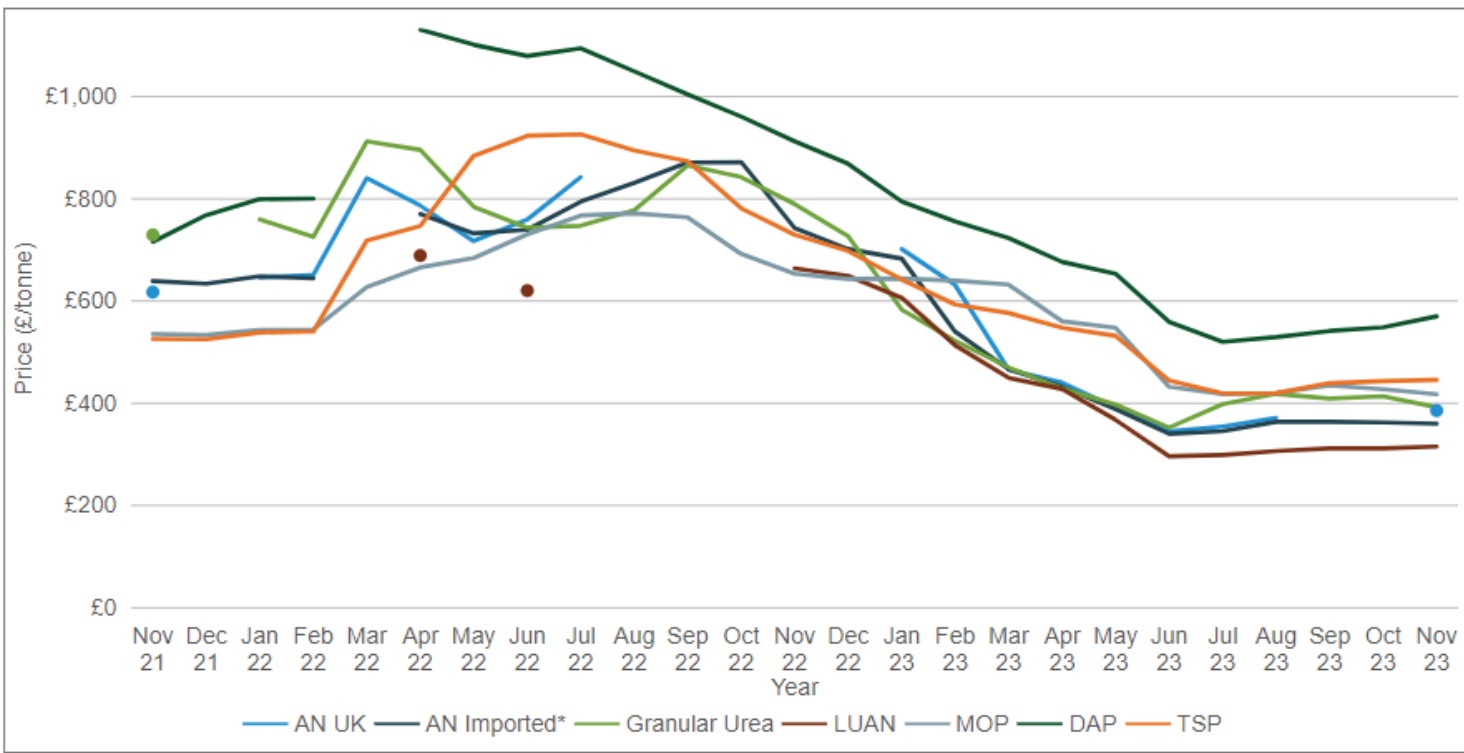
Record soyabean production – tempered by El Nino in Brazil – brings prices down, but rapeseed sees lower export competition, price premium to soya



- ve - World oilseed prices fall as crude oil / biofuel prices weaken and US struggles to export soyabeans against large Brazil crop.
- ve - Low US maize prices to drive higher soyabean sowings in 2024
- +ve - La Nina drought pares Brazil crop back a little
- +ve – US sees strong biofuel demand, low soya stocks
- +ve - Small UK oilseed rape crop in 2023, even smaller in 2024 – UK to remain at import parity.

Source: USDA

Fertiliser prices down 50% in a year – linked to wider energy prices



Source: AHDB

AHDB Early Bird Survey - UK – wet autumn sinks winter sowings for 2024 – more spring barley

UK - AHDB Early Bird Crop Area Survey

	2023 harvest (‘000’s ha)	2024 harvest (‘000’s ha)	Change (‘000’s ha)	Change (%)
Wheat	1,720	1,660	-60	-3%
Winter barley	455	423	-32	-7%
Spring barley	682	756	74	11%
Oats	167	180	13	8%
OSR	391	317	-74	-19%
Fallow	311	388	77	25%
All arable crops	4,828	4,809	-19	-0.4%

Source: AHDB



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AHDB Early Bird Survey - Scotland – less wheat, more spring barley

Scotland - AHDB - crop area estimates

	2023 harvest (^{'000} 's ha)	2024 harvest (^{'000} 's ha)	Change (^{'000} 's ha)	Change (%)
Wheat	107	99	-8.0	-7%
Winter barley	46	49	3.0	7%
Spring barley	249	259	10.0	4%
Oats	26	23	-3.0	-12%
OSR	41	36	-5.0	-12%
Total	469	466	-3	-1%

Source: AHDB

UK 2023 wheat crop ~ 14mt (-1.5mt below early estimates), higher opening stocks/ rise demand mean small surplus ~0.5mt? Quality down.
2024 harvest – small crop, large net importer?

UK wheat balance sheet				
000's t	2021/22	2022/23	2023/24	2024/25*
Open stock	1,413	1,788	1,953	1,854
Production	13,988	15,540	14,055	12,000
Imports	1,994	1,346	1,425	2,000
Available	17,394	18,674	17,433	15,854
Domestic use	14,748	14,590	14,985	13,500
Exports / avail	858	2,131	594*	500
End stocks	1,788	1,953	1,854*	1,854
Net trade	-1,136	785	-831*	-1,500

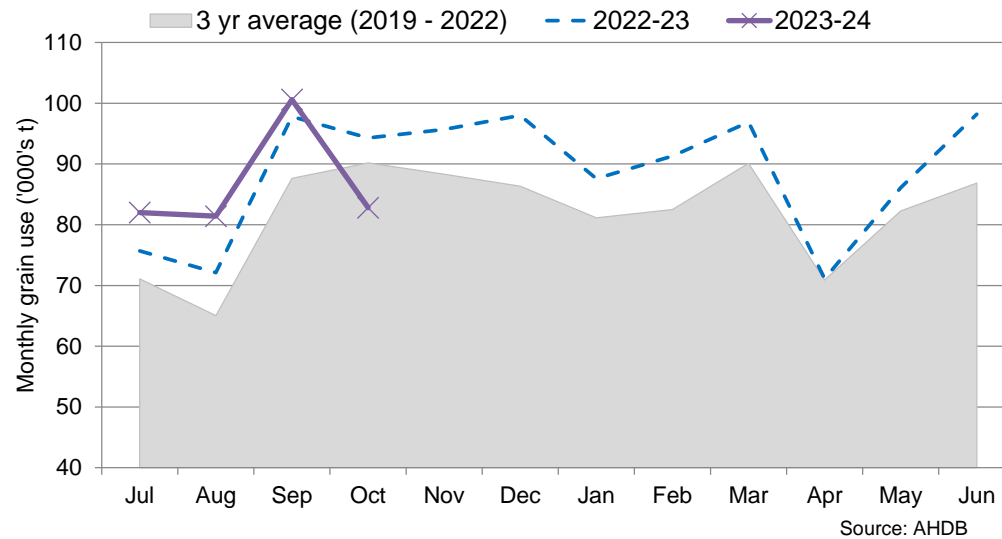
Source: AHDB, * SAC Consulting



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Lower imported maize prices – Scottish wheat falls to stay competitive for distilling.



Distilling wheat use UP 10% in 1st 3 months of 2023/24 **but weaker lately**
 Scottish wheat less competitive vs imported maize, Scottish wheat Premium over English

Average

- 2019/20 = + £5.00
- 2020/21 = - £2.00
- 2021/22 = + £12.00
- 2022/23 Jun = + £17.00
- 2023/24 Dec = +£12.00

Scottish wheat prices under pressure from imported maize pressure.

Delivery date	Aug'21	Jan '22	June '23	Jan '24
Wheat – delivered	205.0	228.00	215.00	205-210.00
French Maize delivered	260.00	260.00	225.00	220.00
Scottish wheat vs Imported	- 55.0	- 32.0	- 15.0	-10 to-15

Source: AHDB, SAC Consulting



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Scotland wheat crop - 0.985mt in 2023, potential -140kt - 15% drop next year

Wheat - Scotland			
	Area (ha)	Yield (t/ha)	Output ('000's t)
2015	109	9.07	989
2016	110	9.30	1,019
2017	110	8.45	926
2018	109	8.12	889
2019	100	6.82	681
2020	107	8.72	937
2021	94	8.57	802
2022	105	9.18	960
2023	107	9.20	985
2024*	99	8.50	842
Ch	-8	-0.7	-143
Ch %	-7%	-8%	-15%

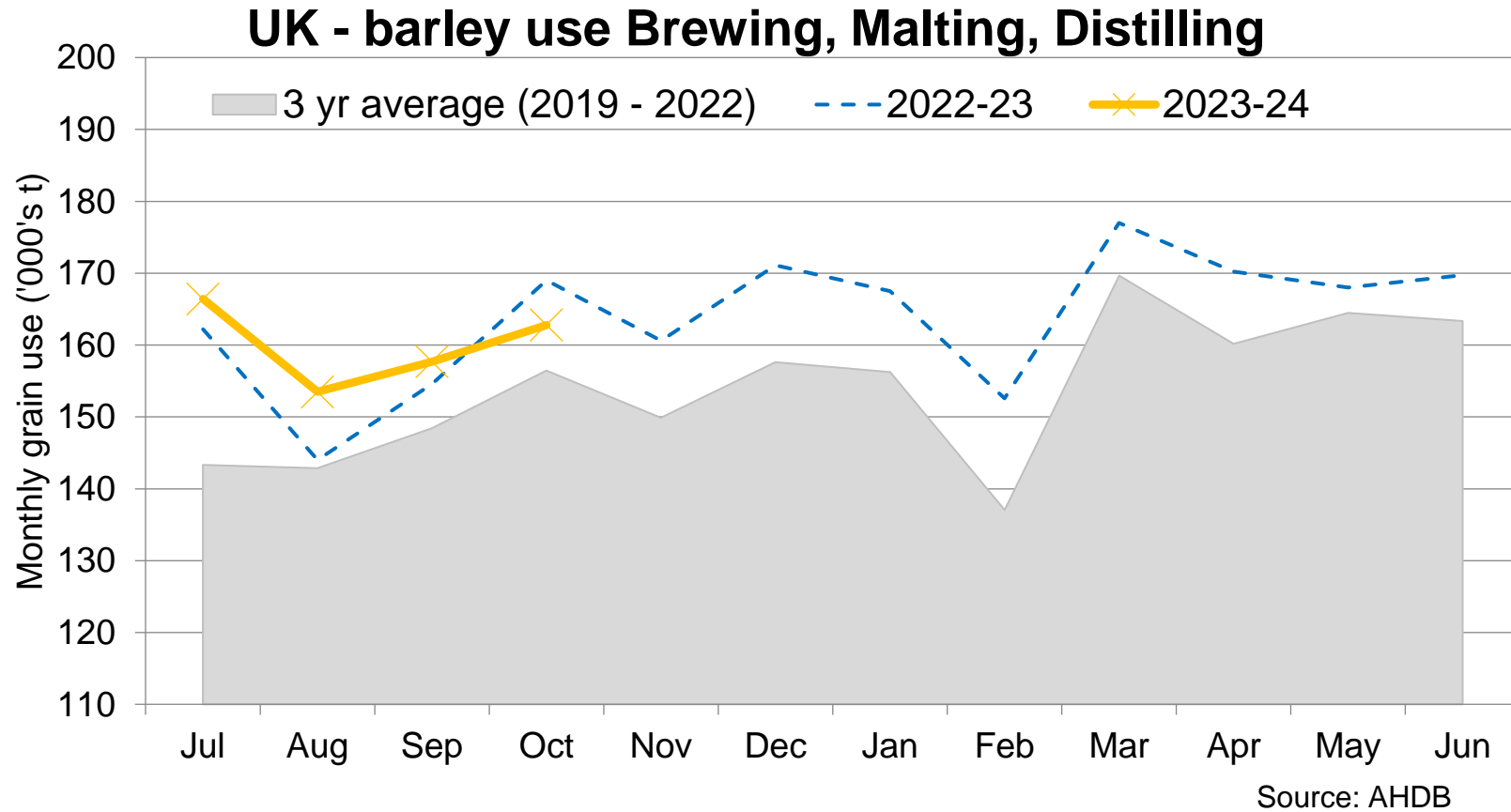
Source: Scottish Govt, * SAC Consulting



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UK malting use up 2% in first 4 months of 2023/24



Source: AHDB, * SAC Consulting



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Scotland spring barley crop - 1.58mt in 2023, potential +100kt +7% rise in 2024

Spring barley - Scotland			
	Area (ha)	Yield (t/ha)	Output ('000's t)
2015	256	5.94	1,521
2016	239	5.43	1,296
2017	244	5.88	1,433
2018	250	5.54	1,388
2019	242	6.38	1,544
2020	259	6.85	1,772
2021	249	6.35	1,581
2022	236	6.81	1,605
2023	249	6.30	1,579
2024	259	6.50	1,683
<i>Ch</i>	+10	+0.2	+104
<i>Ch %</i>	+4%	+3%	+7%

Source: Scottish Govt, * SAC Consulting



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Malting barley use in Scotland – tight in 2023

Lower output, small EU crop, premium UP

Higher area and output in 2024? But stocks low, demand up?

	Scottish / Berwick malting Spring barley purchases (^{'000's t})	Scottish Spring Barley Crop (^{'000's t})	Est. Malting varieties (%)	Est. Malting varieties (^{'000's t})	Scottish malting purchases as % of malting var	Malting premium over feed £/t
2018	810	1,338	72%	963	84%	47
2019	840	1,543	72%	1,111	76%	17
2020	873	1,772	72%	1,275	68%	0-4
2021	930	1,451	72%	1,045	89%	0-13
2022	1,000	1,605	72%	1,123	89%	50
2023	1,000	1,579	72%	1,137	88%	80
2024	1,000	1,683	72%	1,212	83%	50



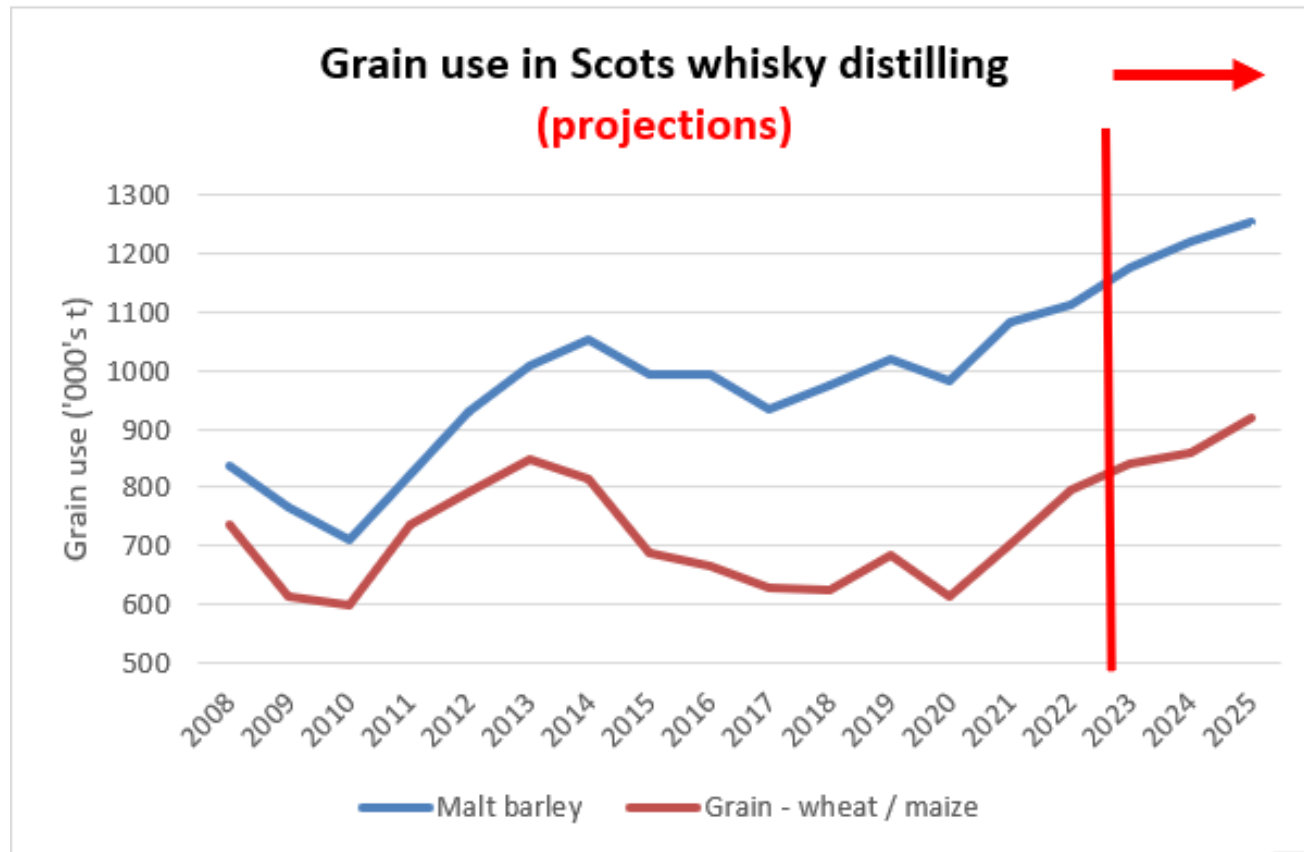
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Scotland use of grain in distilling

Forecast to rise 2022 to 2025

+13% (+144kt) for malting barley,
+15% (+122kt) for wheat/ maize,



Source: Scotch Whisky Industry Review, * SAC Consulting



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Estimated Gross margins – sharp fall in 2023 as high input costs meet falling grain prices - * depending on how much sold forward. Better prospects in 2024 based on forward prices

Wheat

Harvest	Yield (t/ha)	Price (£/t)	Output (£/ha)	VC (£/ha)	GM (£/ha)	YoT (%)
2021	9.18	214	2,210	461	1,749	43%
2022	9.34	240	2,530	589	1,941	11%
2023	9.14	205	2,125	1,015	1,110	-43%
2024	8.20	205	1,937	655	1,282	16%

Spring malting barley

Harvest	Yield (t/ha)	Price (£/t)	Output (£/ha)	VC (£/ha)	GM (£/ha)	YoT (%)
2021	6.35	192	1,407	288	1,119	24%
2022	6.81	256	1,960	383	1,577	41%
2023	6.30	245	1,730	678	1,052	-33%
2024	6.50	223	1,638	422	1,216	16%

Source: SAC Consulting, AHDB



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Estimated Net Profit – 2 strong years for wheat, 1 for sp. Malting barley, BPS still essential

Wheat

Harvest	GM (£/ha)	FC (£/ha)	NPI (£/ha)	BPS (£/ha)	NPI + BPS (£/ha)
2021	1,749	959	790	221	1,012
2022	1,941	1,045	896	222	1,118
2023	1,110	1,087	23	224	246
2024	1,282	1,120	163	224	386

Spring malting barley

Harvest (£/ha)	GM (£/ha)	FC (£/ha)	NPI (£/ha)	BPS (£/ha)	NPI + BPS (£/ha)
2021	1,119	959	160	221	382
2022	1,577	1,045	531	222	754
2023	1,052	1,087	-36	224	188
2024	1,216	1,120	97	224	320

Source: SAC Consulting, AHDB

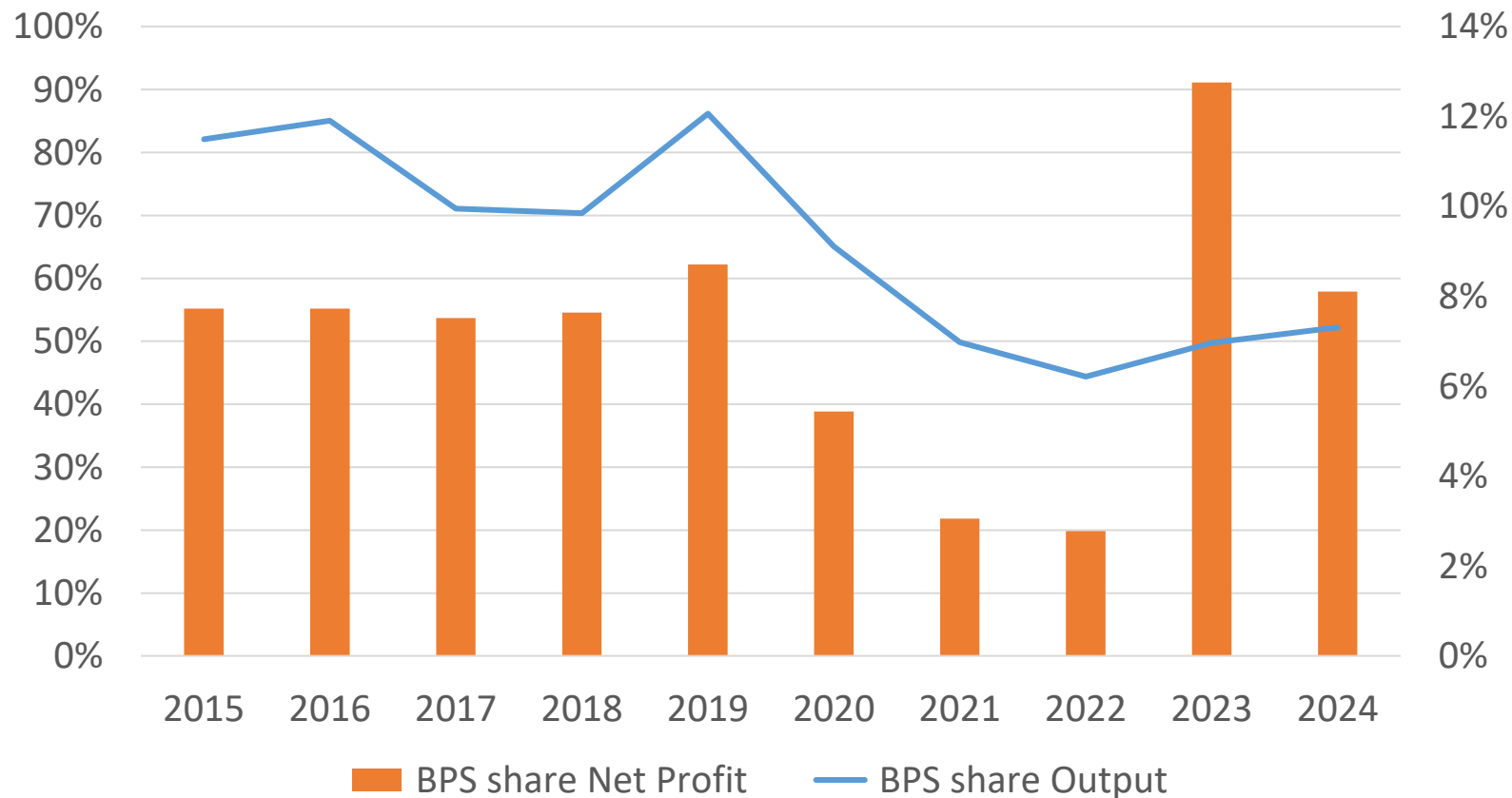


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Subsidies (BPS) – declining share of output BUT vital to maintain profitability in a poor year

Basic Payment Scheme - share of wheat output and profit



Source: SAC Consulting, AHDB



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Governments and buyers both seek low carbon grain

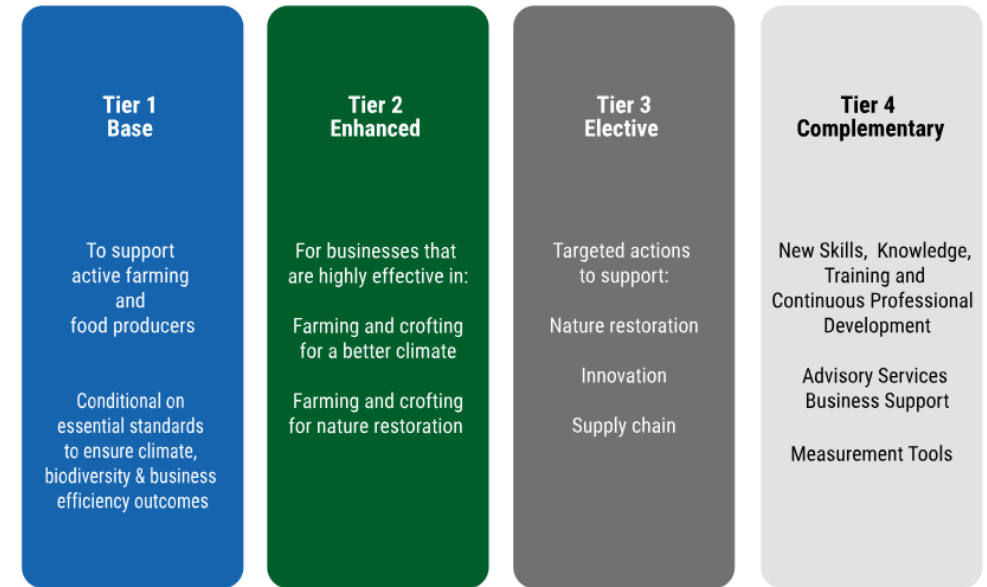
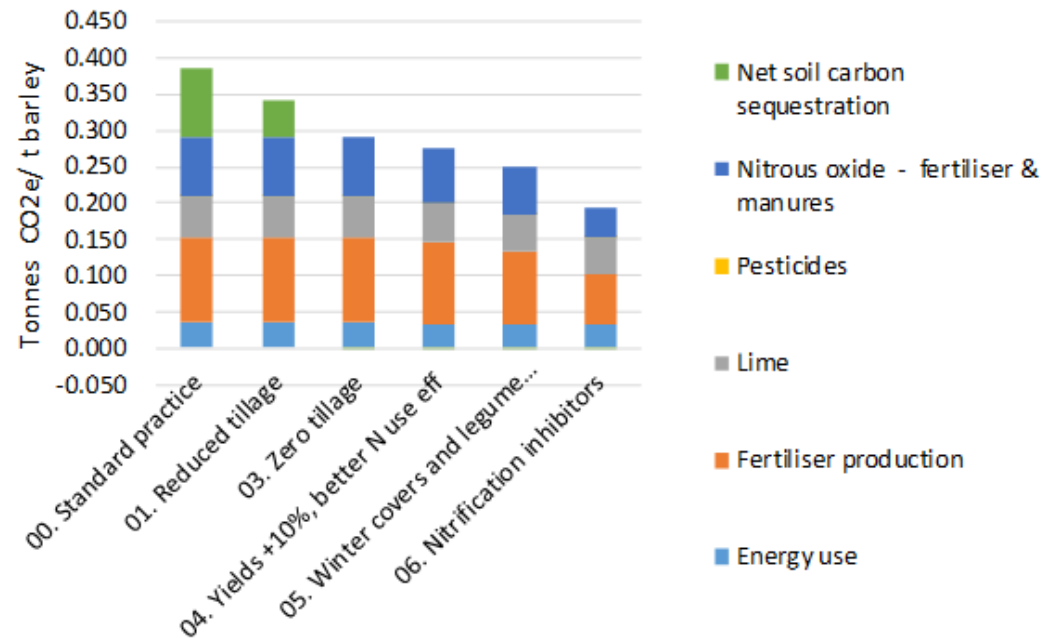
Distillers to reduce Scope 3 emissions – premium / differentiation

(Carbon per tonne (kgCO₂e/t): UK wheat 432, Fr mz 465, Braz mz 1054)

Scottish Govt payments – carbon reduction ~50% of payments?

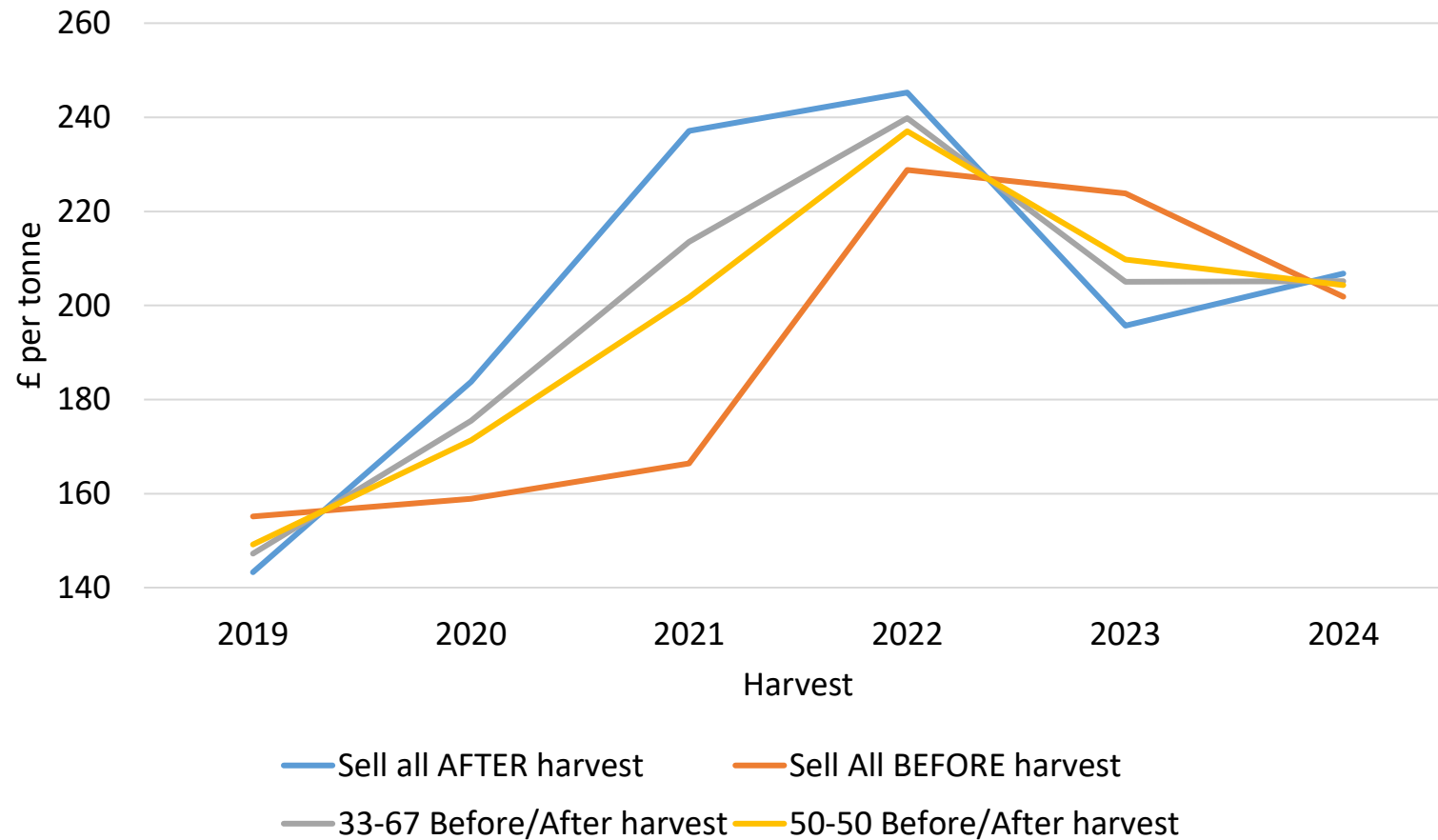
Low carbon malting spring barley

Agriculture Support Package Beyond 2025



Grain Selling strategies*

Grain selling strategies - wheat



Note - * 2023 and 2024 harvest markets are still in play

Grain Selling strategies* Results

Selling after harvest – Highest price – **Lowest price!** Low weather Risk
 Selling 1/3 before harvest, 2/3 after looks a good balance

2019-2024 TO DATE	A In The Shed Sell all AFTER harvest	B Go Early Sell All BEFORE harvest	C Little & Often Sell 1/3 BEFORE & 2/3 AFTER harvest	D 50:50 Sell 50-50 Before/After harvest
Average price	202.00	189.16	197.72	195.58
Diff from A	(£/t)	-12.84	-4.28	-6.42
	(%)	-6%	-2%	-3%
Lowest price	A 143.30	B 155.14	C 147.25	D 149.22
Diff from A	(£/t)	11.84	3.95	1.97
	(%)	8%	3%	1%
Highest price	A 245.30	B 228.81	C 239.80	D 237.06
Diff from A	(£/t)	-16.49	-5.50	-8.25
	(%)	-7%	-2%	-3%
Variation (£/t)	102.00	73.67	92.56	87.84
(%)	50%	39%	47%	45%
Per ha (@10t/ha)	1020	737	926	878

Note - * 2023 and 2024 harvest markets are still in play



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New crop forward grain prices – if spot prices rise look at forward prices too

Cost of Prodn Est '24 Wheat £216/t , Malt B £237/t

Harvest	2021	2022	2023	2024	Jan-Nov 24	
	Season	Season	Jan-24	Nov-24	Change	
	(£/t)	(£/t)	(£/t)	(£/t)	(£/t)	
Wheat (ex-f)	237	245	196	212	+£16	
Feed barley (ex-f)	150	215	160	160	-	
Malt. B (distil) Sco	192+	256*	245#	230@	-£15?	
Malt. B (brew) Eng*	170	170	240	220	-£20?	
OSR (ex-f)	~528	~515	£344	£356	+£12	

~NB

+ 50% at harvest £198 - 50% at forward prices of £186

* 50% at harvest £254 - 50% at forward prices of £259

50% at harvest £236 - 50% at forward prices of £254,

@ £20-30/t over wheat futures, ~ 1/3 sold forward, excluding oil bonus

Summary - big crop factored in, weather/politics to drive now

1) Why have grain prices fallen recently?

- World cereal crop +48mt higher - led by US Maize but much less than first forecast
- World wheat and feed grain stocks-to-use still FALLING
- EU/ UK / Scottish – weather hit UK cereal sowing, crop lower, poorer quality, lower value
- Oil (biofuel) and input costs falling

2) What factors may be important in the year ahead?

- ve / +ve World economic growth slows / BUT inflation easing, growth should pick up
- ve Russia / Ukraine wheat exports rise
- ve Scot's wheat use in distilling faces cheaper maize
- +ve El Nino threatens soya / cereals in Americas / Oz / East Asia
- +ve UK wheat crop to shrink, stocks low – move to import parity
- ve / +ve Spr distilling barley – higher area to boost supply in '24 but demand good.



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Take aways – top three

- 1) **Keep looking ahead for opportunities to sell** – large world maize crop factored in - stocks to use still falling - remains vulnerable to weather – keep a close eye on South America and US spring plantings. UK stocks low / 2024 harvest much smaller
- 1) **Carbon will increasingly influence markets and subsidies** - both Governments and Distillers seeks low carbon cereals, biofuel / Sustainable Aviation Fuel demand will continue to grow
- 1) **Pick a marketing strategy that suits your appetite for risk** – selling after harvest delivers the highest price on average BUT can also deliver the lowest in poor year – find **your** strategy, **write it down** and **stick it to a wall!**



Questions?

AHDB Winter Roadshow
Policy Update

Eleanor Kay
Senior Policy Adviser (Agriculture & Climate Change)





What will be covered today?



Agricultural Reform Programme

Agricultural Reform Route Map



Climate Change Plan

Future Policy



Questions



Agricultural Reform Programme



- **Introduced in 2022**
- **Has 4 Parts**
 - **Route Map**
 - **List of Measures**
 - **Glossary of Terms**
 - **Preparing for Sustainable Farming Guidance**
- **Most detail on the transition to 2026**
- **Less detail on what happens from 2026**
- **Still being developed**



Agricultural Reform Route Map



- **A phased approach, with “no cliff edge”**
- **New 4 Tier System is the end result**
- **2025 – New Enhanced Conditionality**
- **2026 – New Enhanced Support (Tier 2)**
- **2027 – Elective and Complementary Support**



Agriculture Support Package Beyond 2025

Tier 1 Base

To support
active farming
and
food producers

Conditional on
essential standards
to ensure climate,
biodiversity & business
efficiency outcomes

Tier 2 Enhanced

For businesses that
are highly effective in:

Farming and crofting
for a better climate

Farming and crofting
for nature restoration

Tier 3 Elective

Targeted actions
to support:

Nature restoration

Innovation

Supply chain

Tier 4 Complementary

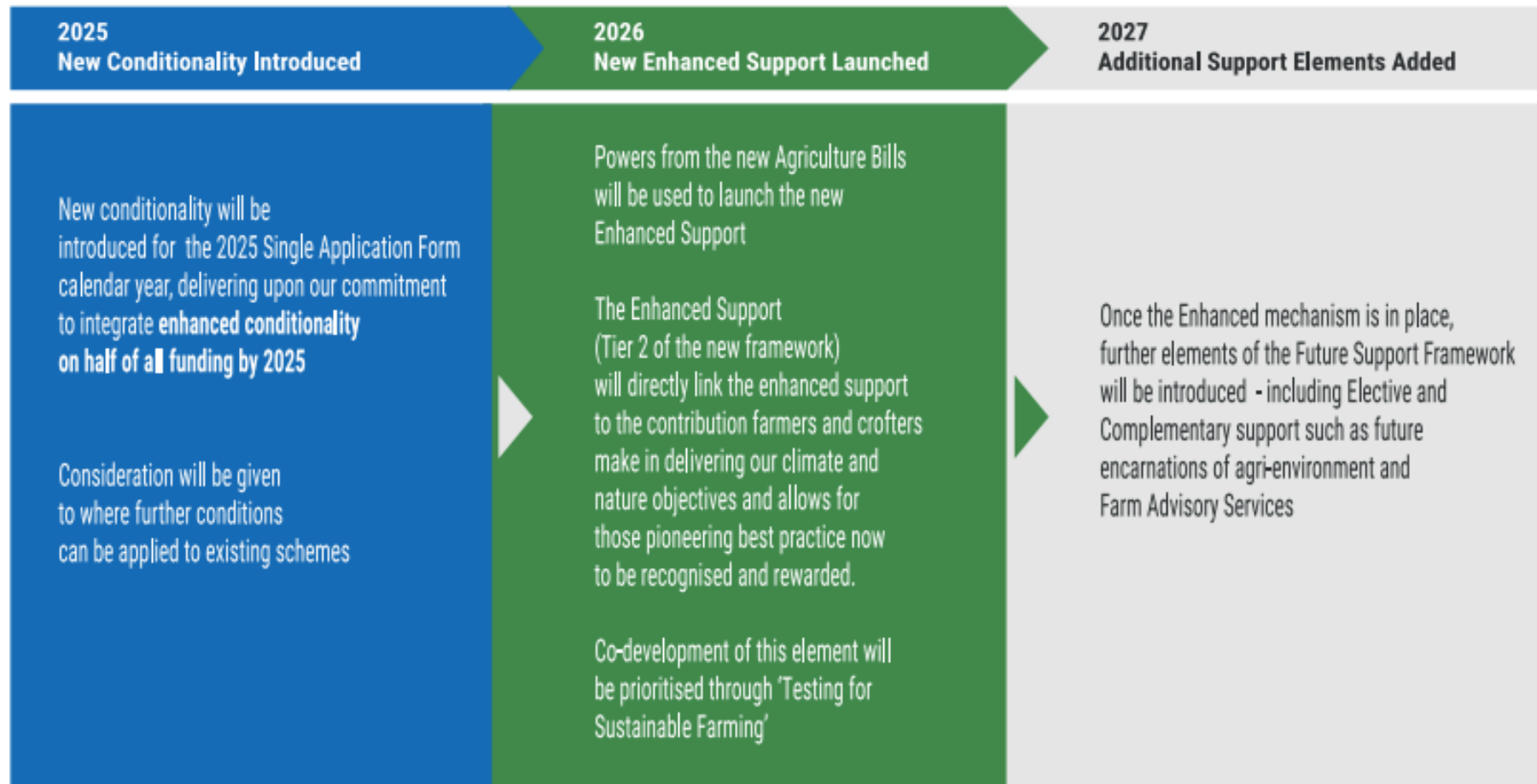
New Skills, Knowledge,
Training and
Continuous Professional
Development

Advisory Services
Business Support

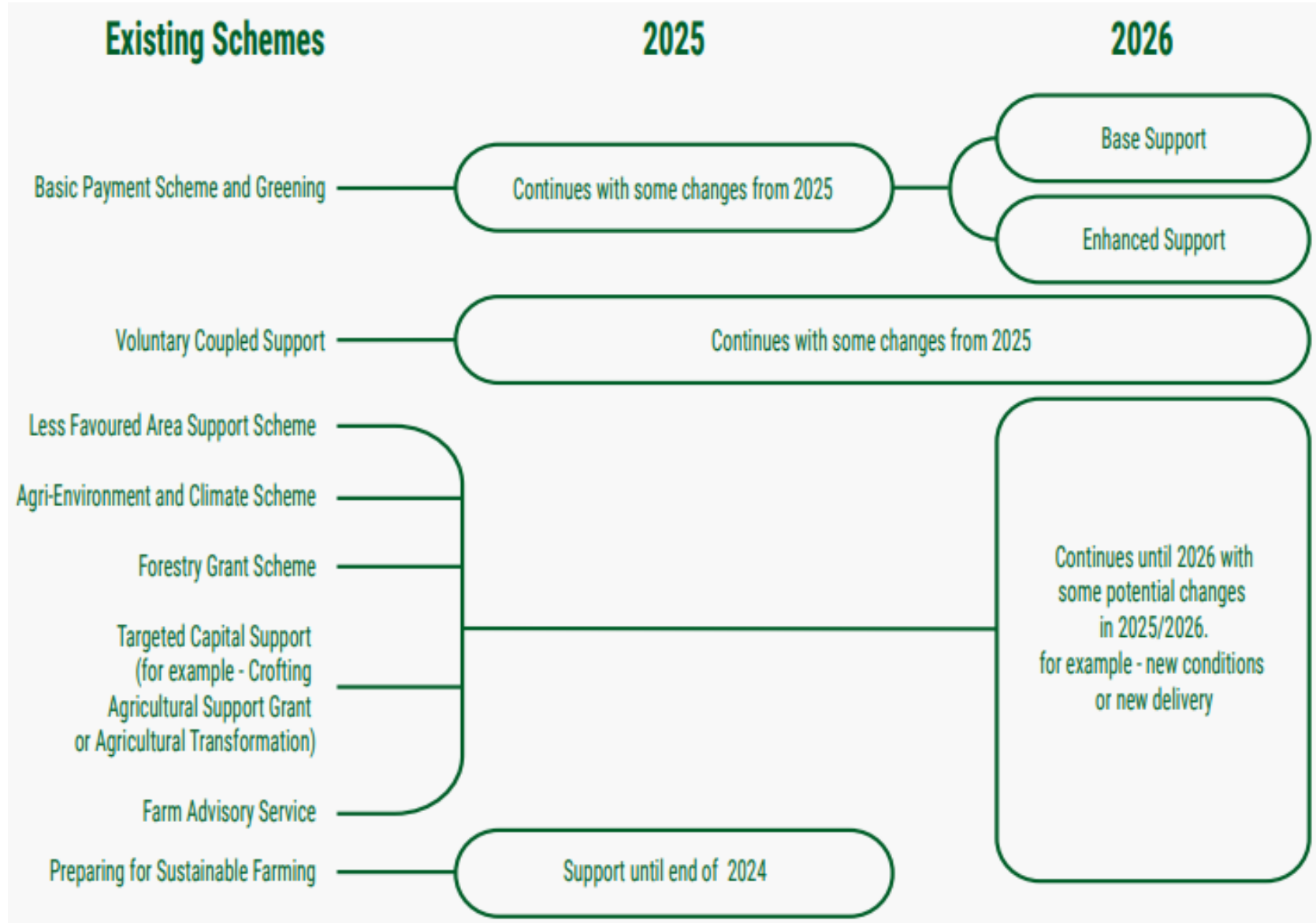
Measurement Tools



Future Support Framework: a phased approach

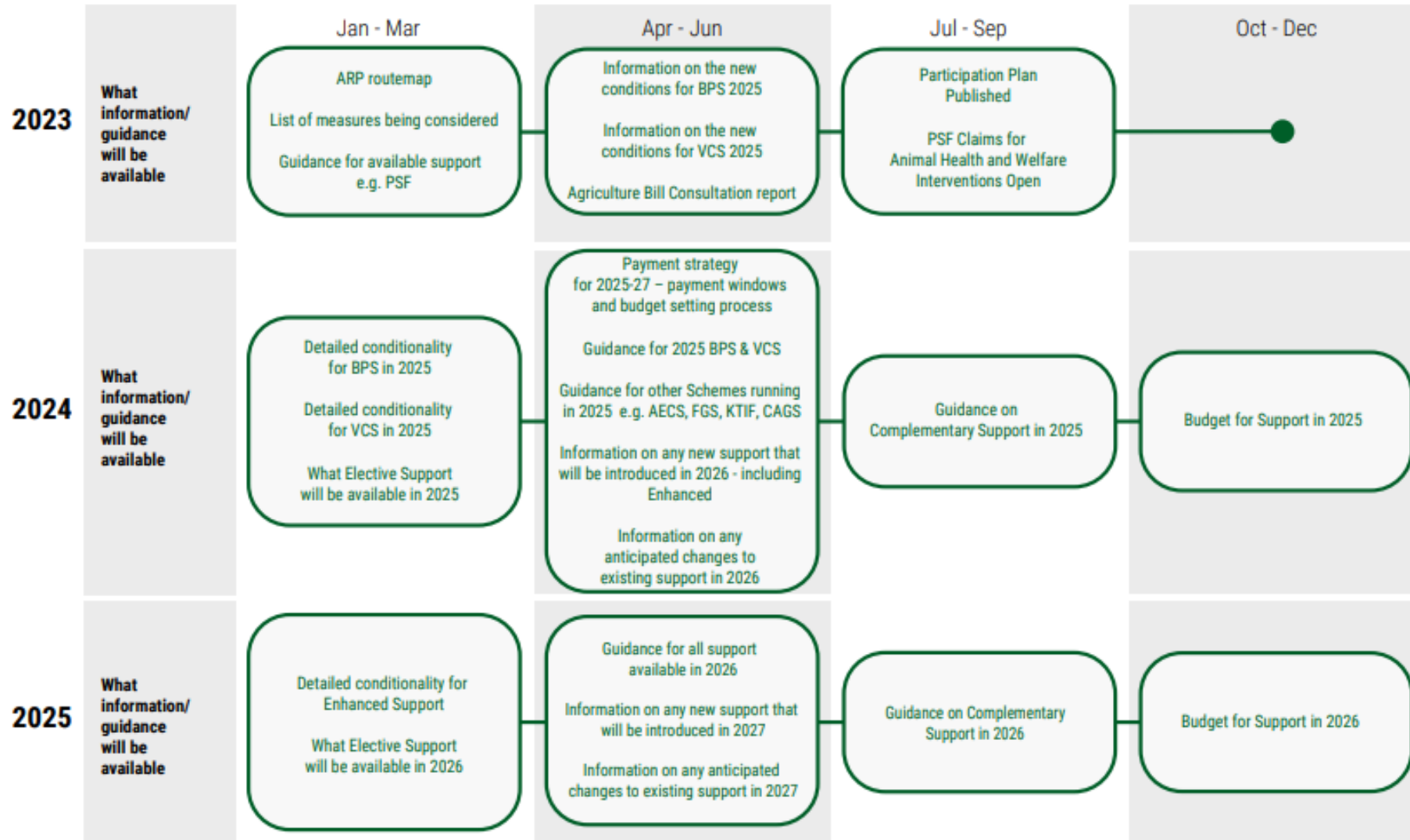


The present payment regions will be kept as they are in the early part of the transition. The current three region model will be reviewed to ensure the Tier One 'Base' payment is fit for purpose for the future.





When will I get more information to help me plan?





Agricultural Reform Route Map – Next Detail



Q1 2024 - detail on the funding allocation between tiers, detail on the Whole Farm Plan, detail on conditionality for BPS and VCS (primarily in the context of the beef support scheme), and what elective support will be available in 2025.



Q2 2024 - details on the payment strategy for 2025-27 and guidance for BPS, VCS and other schemes available in 2025





Making the most of the transition time



- **Preparing for Sustainable Farming programme**
- **Support from the Farm Advisory Service**
- **Take time to plan**
- **Be prepared for the arrival of new schemes or other market opportunities**



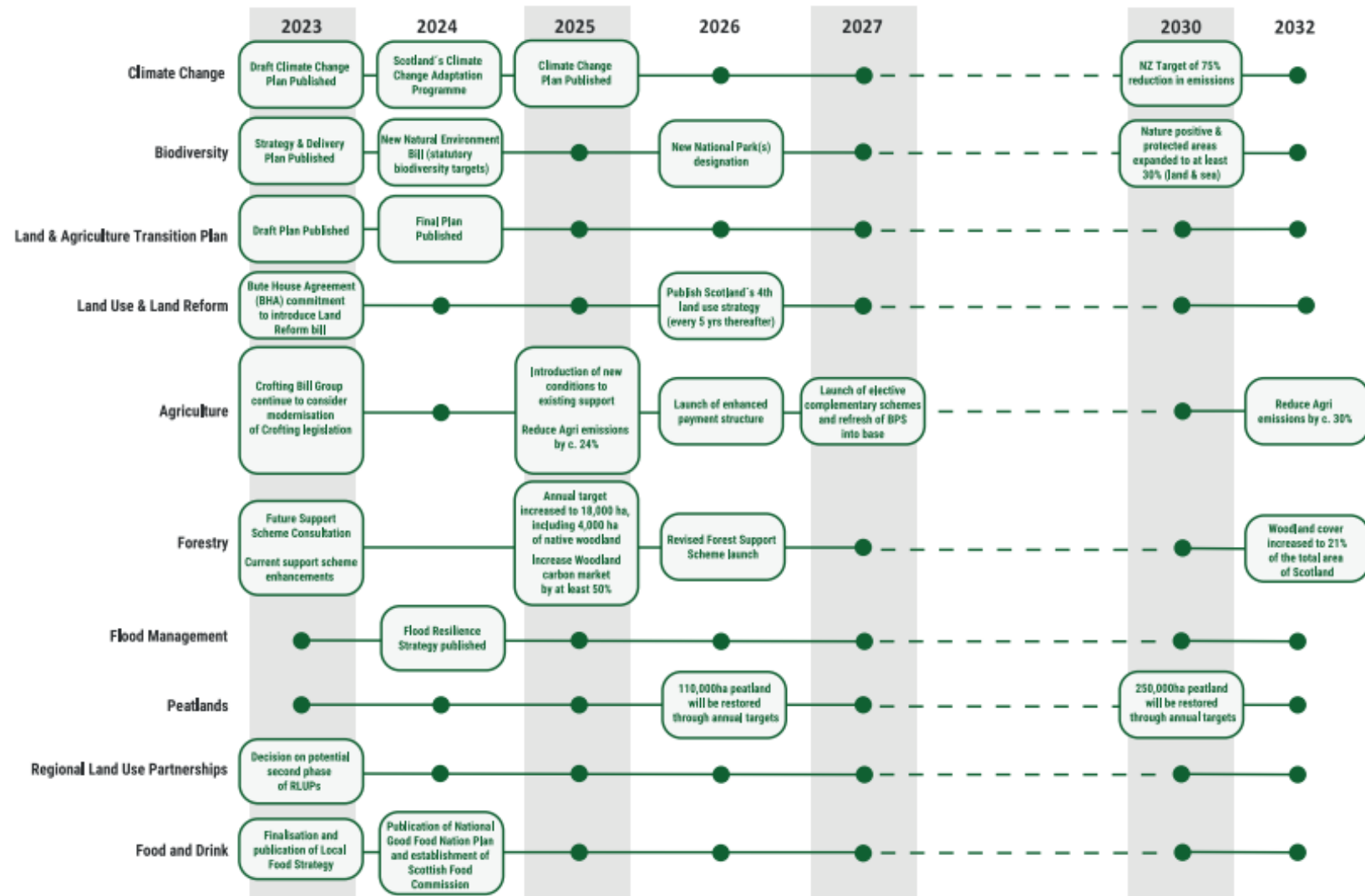
Future Policy Development



- **Agriculture & Rural Communities Bill – Stage 1**
- **Land Reform Bill – Delayed**
- **Climate Change Plan – Delayed**
- **Good Food Nation Secondary Legislation**
- **Just Transition Sector Plans**



The wider land and agriculture change plan for Scotland





Agriculture Bill - When will it pass?



Introduced – September 28, 2023

Currently in Stage 1 – Until March

RAI Committee is taking evidence



Stage 1 Debate – expected in February

**Scottish Government want it to pass by Summer,
Autumn is more likely.**





What is in the Bill?



Framework Bill

Divided in to 5 parts

Part 1 sets out the key objectives of agricultural and rural policy



Part 2 confers the power on the Scottish Ministers to provide support for the purposes

Part 3 enables the Scottish Ministers to amend and adjust retained CAP rules



Part 4 contains a variety of measures relating to agriculture

Part 5 contains general provisions that apply to the whole Bill



How can I get involved?



Provide feedback when you get surveys

Engage in the two Scottish Government backed engagement projects



As new policy is developed attend government workshops



Share your thoughts with organisations like SLE, especially those relating to current policy interactions. This is our best opportunity to influence things

Questions?



Thank you

Eleanor Kay, Senior Policy Adviser (Agriculture &
Climate Change)

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Agroecology Workshop

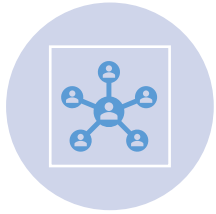
Arable Roadshows: January 2024



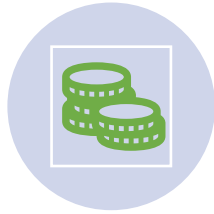
Dr Lorna Cole
Senior Ecologist: SAC Consulting
University Innovation Fund

Alice Walker
NERC E4 DTP
SRUC/University of Edinburgh

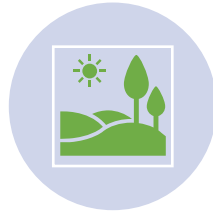
Three pillars of sustainability



SOCIAL



ECONOMIC



ENVIRONMENTAL

Vision for Scottish Agriculture:
become a global leader in
sustainable and regenerative
agriculture



Farm
Advisory
Service



AHDB
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What is regenerative agriculture?



COP 15 Global Biodiversity Targets: Transnational businesses must reduce biodiversity-related risk and promote sustainable production



Source 30% of key ingredients from farms transitioning to **regenerative agriculture** by 2025



Produce 100% of wheat for European production through **regenerative agriculture** by 2030



50% of its key ingredients through **regenerative agriculture** by 2030



Collaborating with PepsiCo: spread **regenerative farming** across 2 million acres

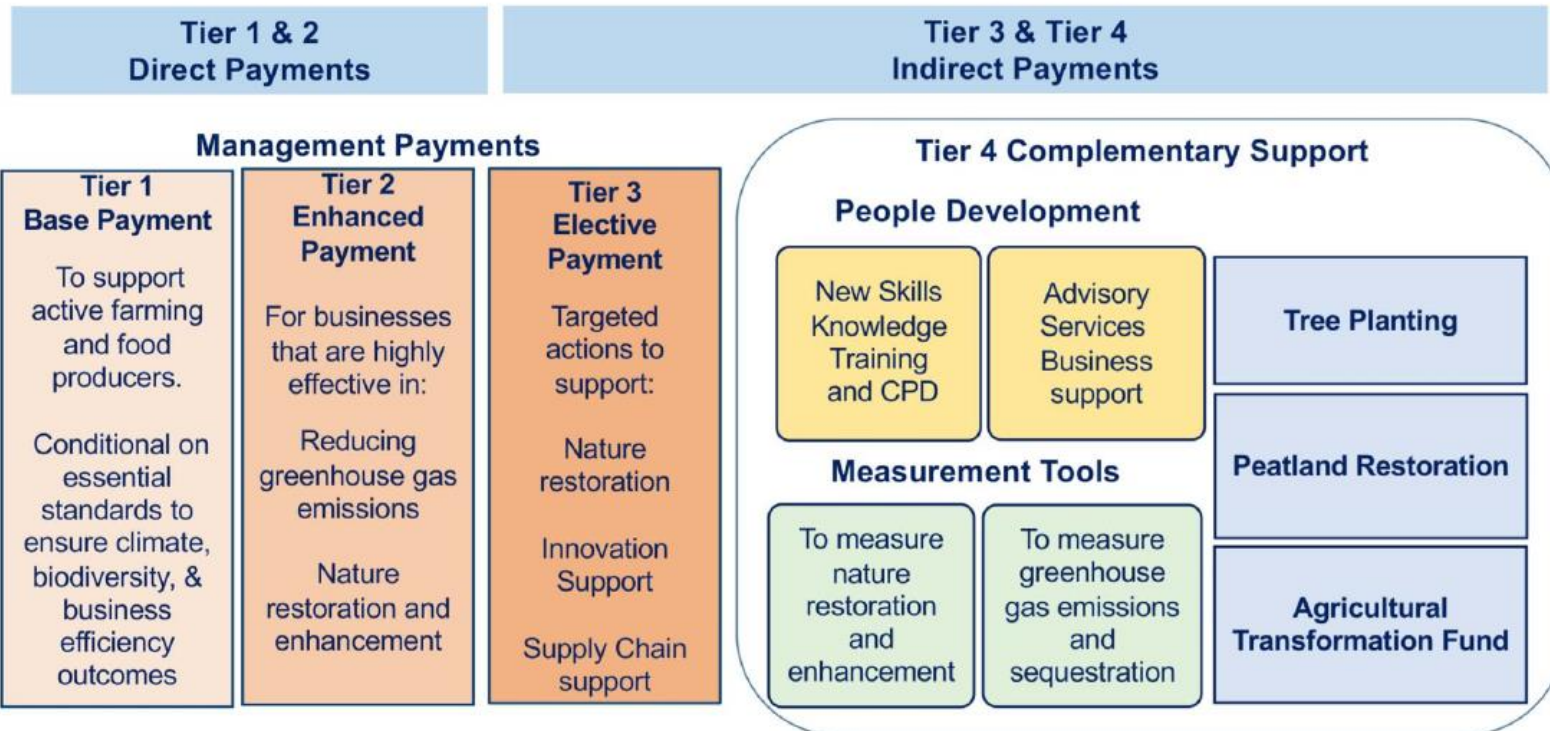


Policy

Agriculture and Rural Communities (Scotland) Bill

*The adoption and use of **sustainable and regenerative agricultural practice***

- 50% of direct payments into Tier 2 [Agriculture Reform Programme](#)
- List of measures introduced 2026
 - Improving efficiency and welfare
 - Actions to benefit nature, environment and climate





Workshop Aim: Make sure that the List of Measures are viable for Scottish Farmers

- We want to sense check viability of measures
- Recommend refinements to Scottish Government

Workshop

Part 1: Viability of measures

Part 2: Barriers and Solutions



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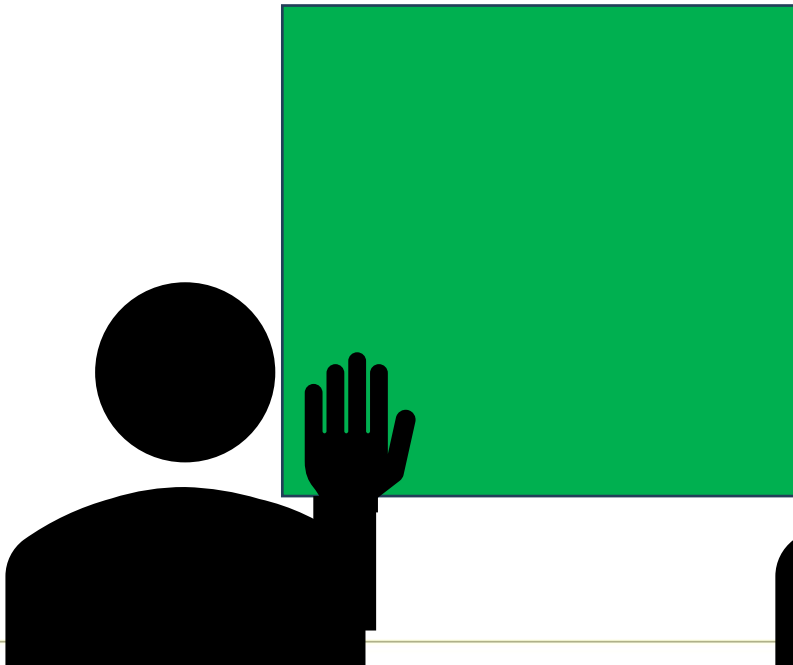


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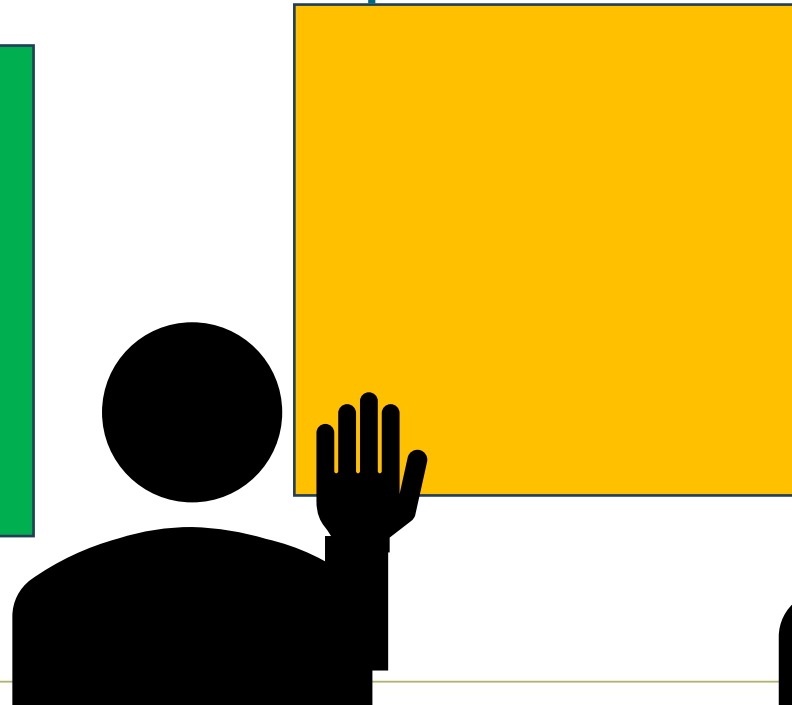
Diversify crop rotation and break crop rotation

period: Use a number of different crops in the rotation. Leave a longer break between soil damaging root crops(e.g. potatoes) to improve soil recovery.

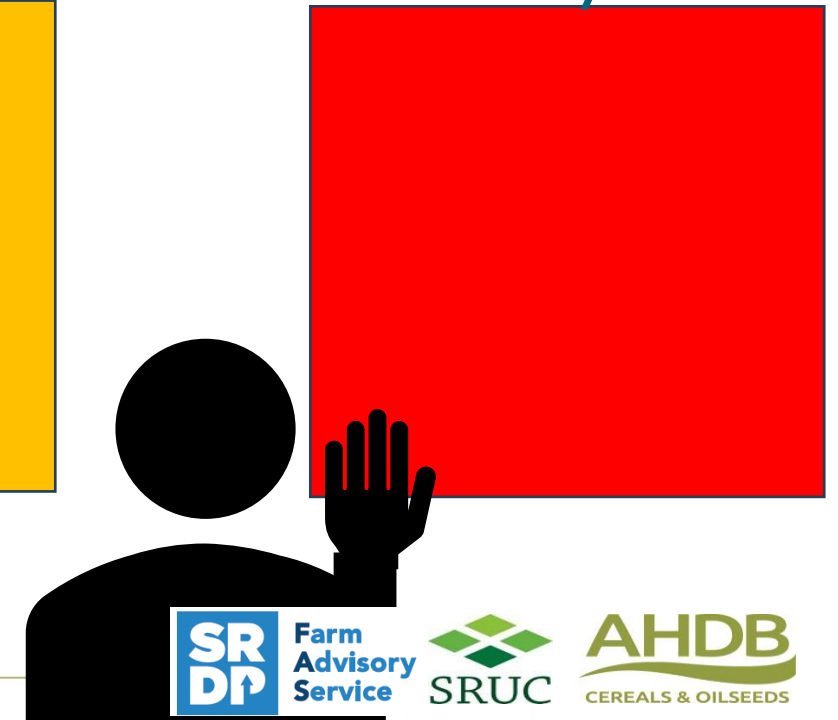
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I am willing to consider this option

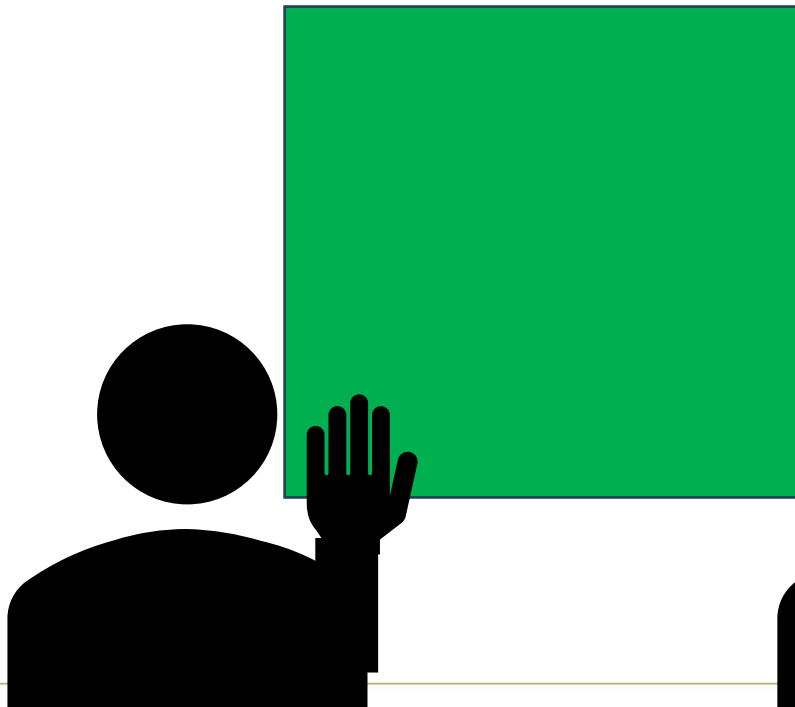


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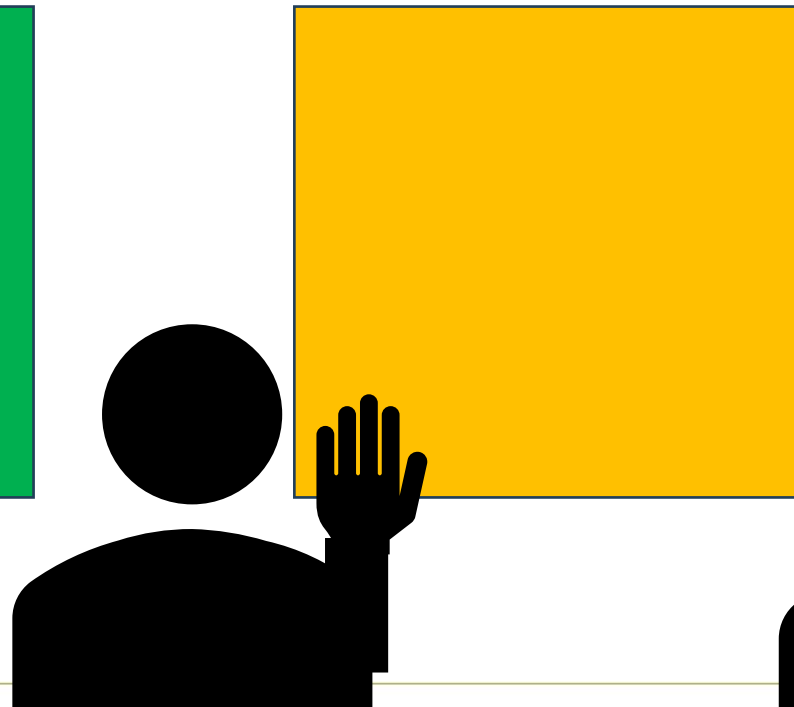


Enhance existing Hedgerows: Allow hedge to grow to minimum 1.5m height and width, plant gaps and leave some trees to reach maturity.

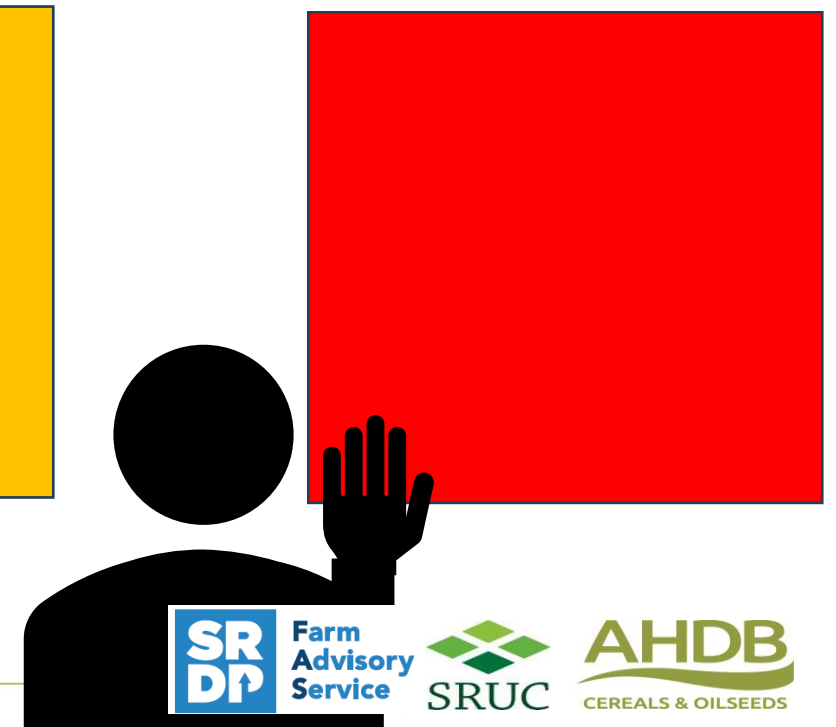
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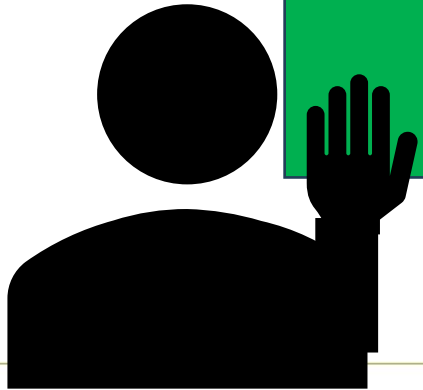
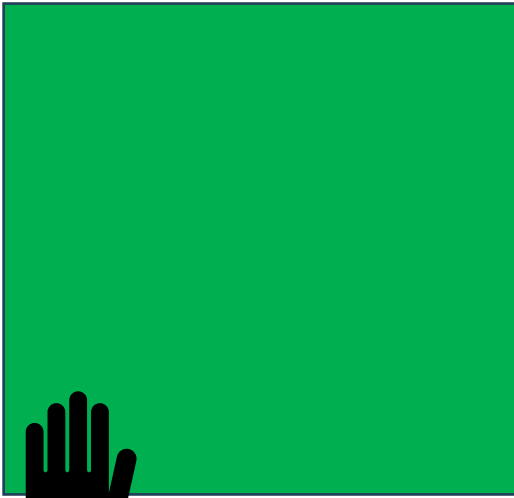


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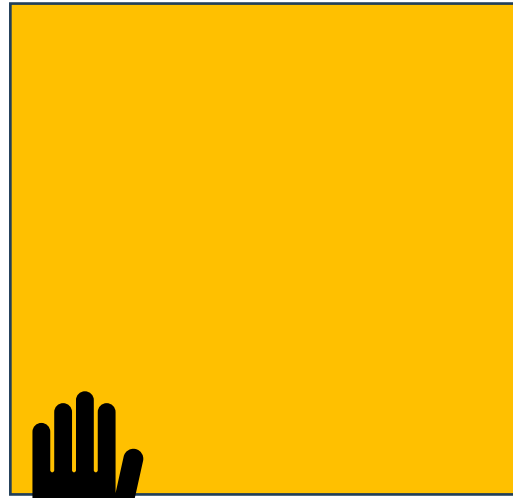


Winter cover: retain stubble over winter and leave undisturbed until 1st March. Could be extended to include cover crops.

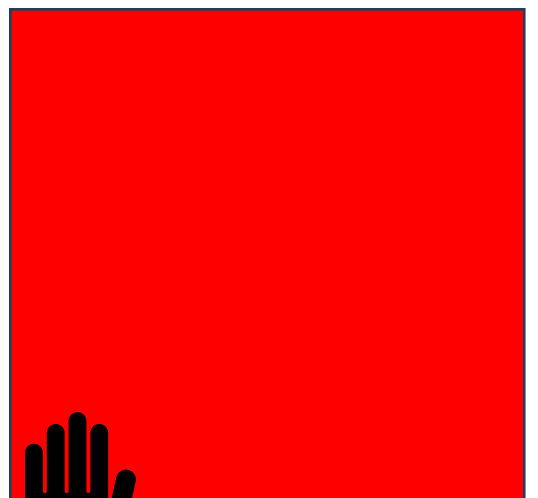
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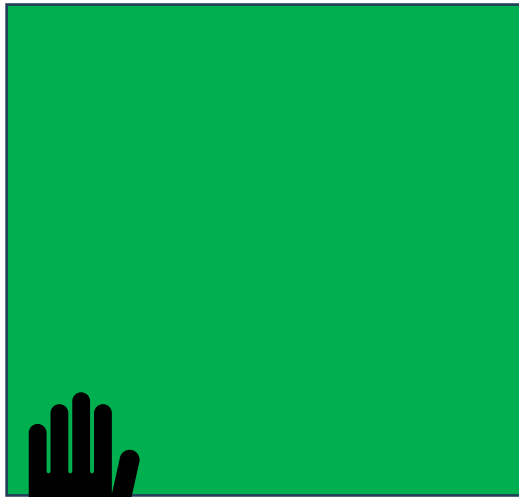


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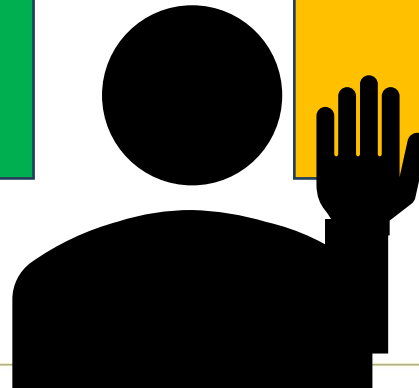
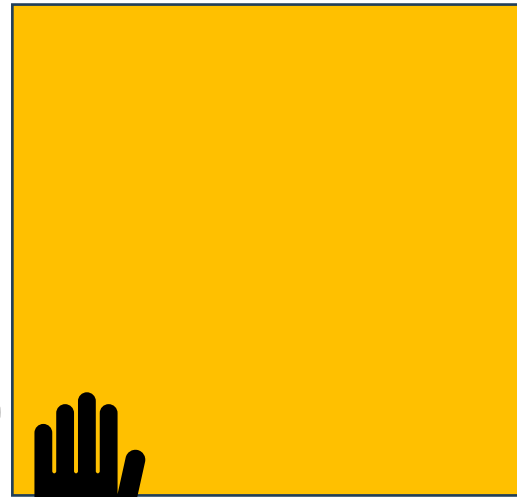


Minimum/No Tillage: Minimise soil disturbance, avoid inversion/deep ploughing e.g. using direct drilling. Unless issues with compaction or large weed burden.

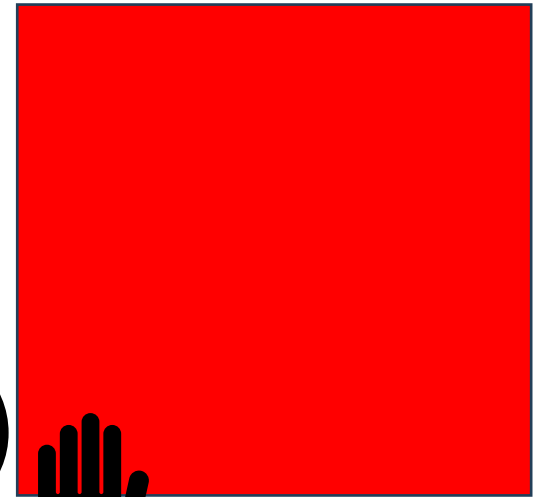
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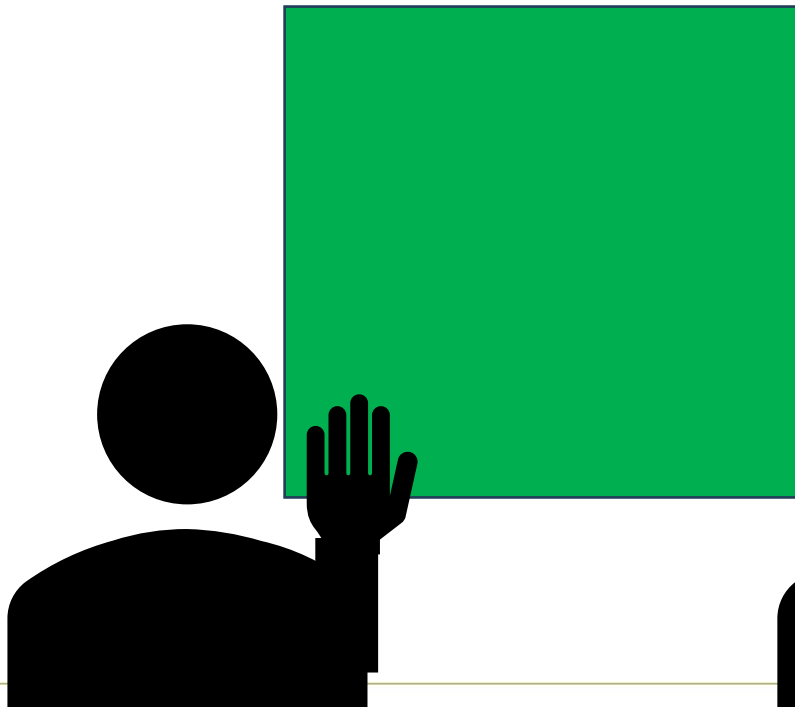


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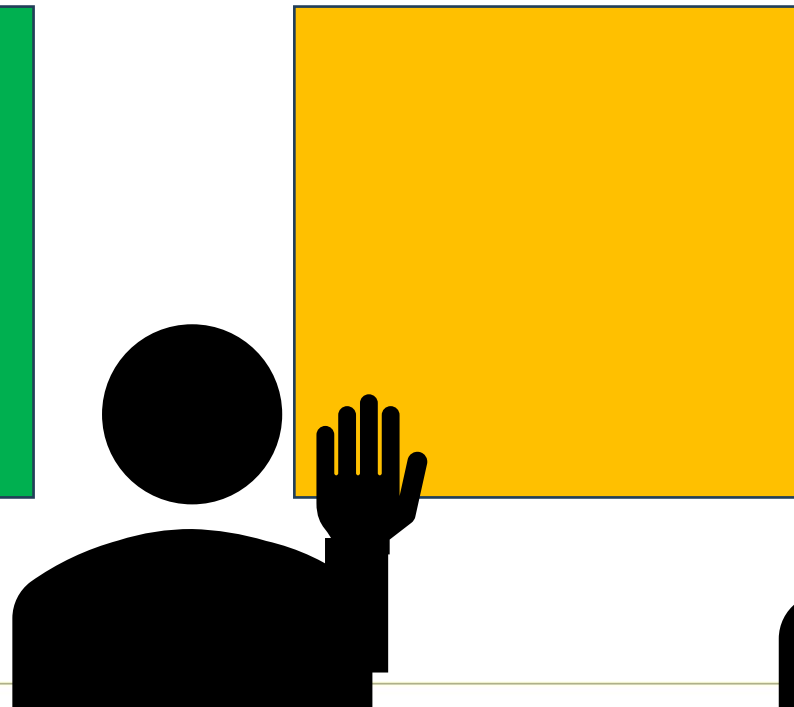


Use of N fixing crops: Include legumes such as peas or field beans into the cropping rotation, and other appropriate catch/green manures.

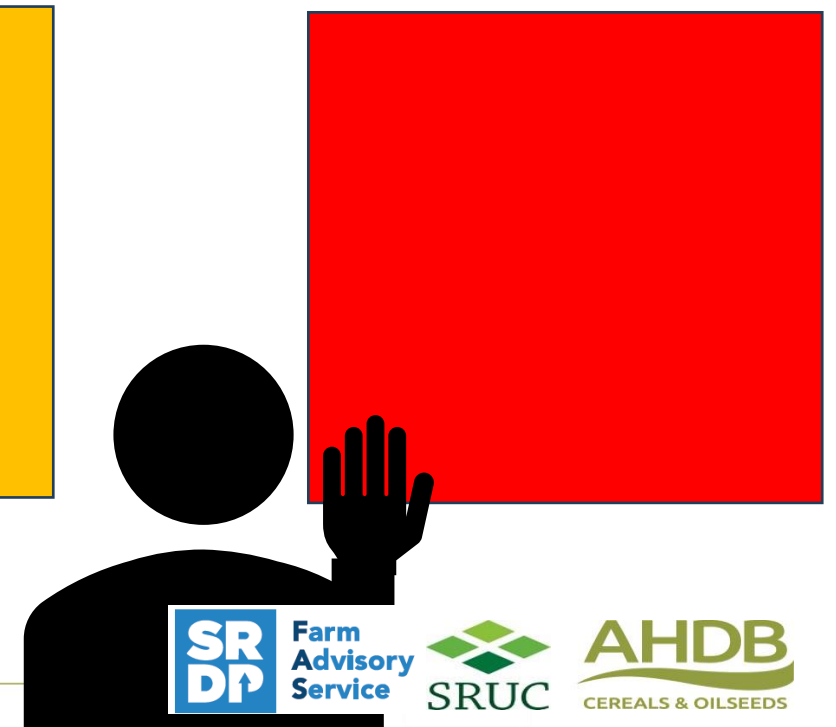
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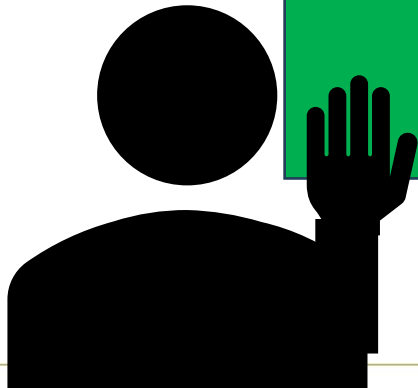


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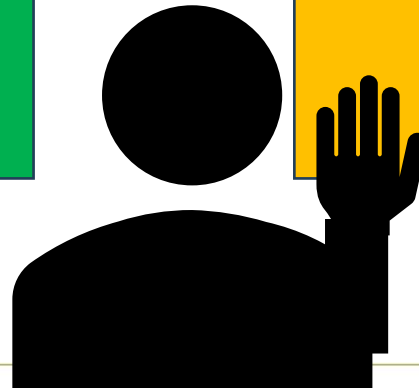
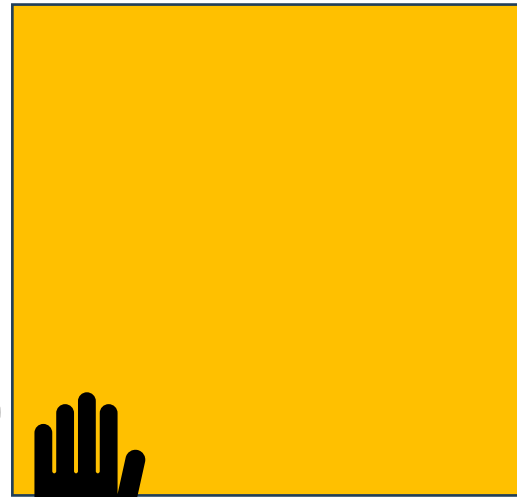


Pollinator strips and margins: Within-field strips and margins specifically planted to provide nectar and pollen for beneficial invertebrates.

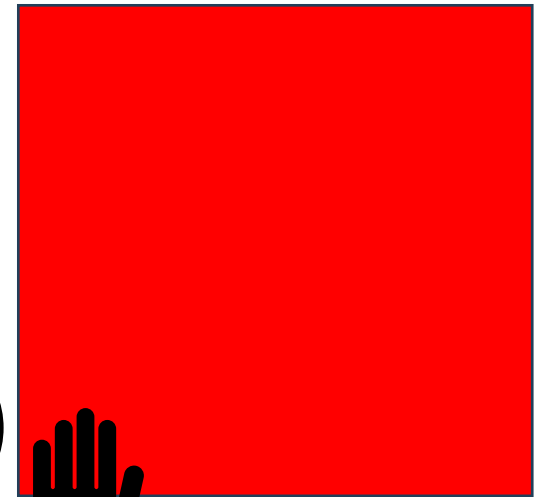
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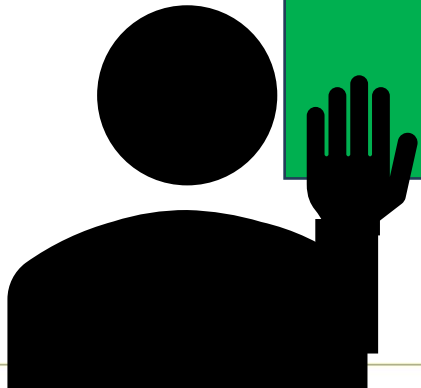


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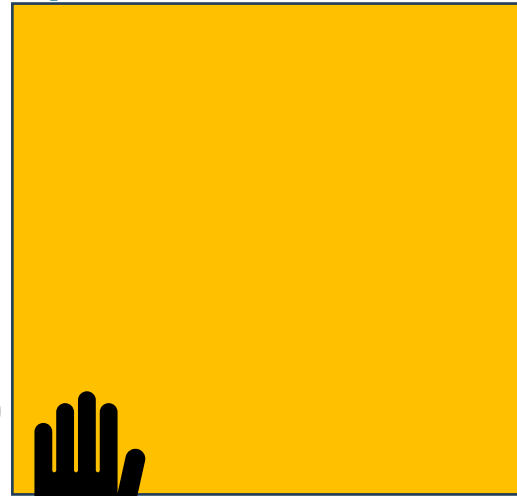


Arable/ley rotations: Add grass or fodder crops into the cropping rotation and graze animals on arable land. Can also livestock grazing of winter cereals.

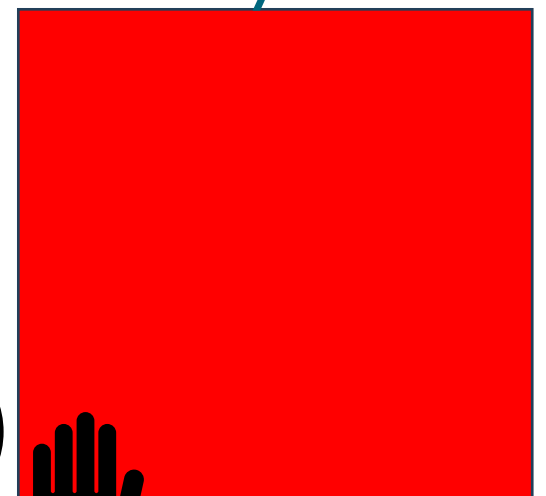
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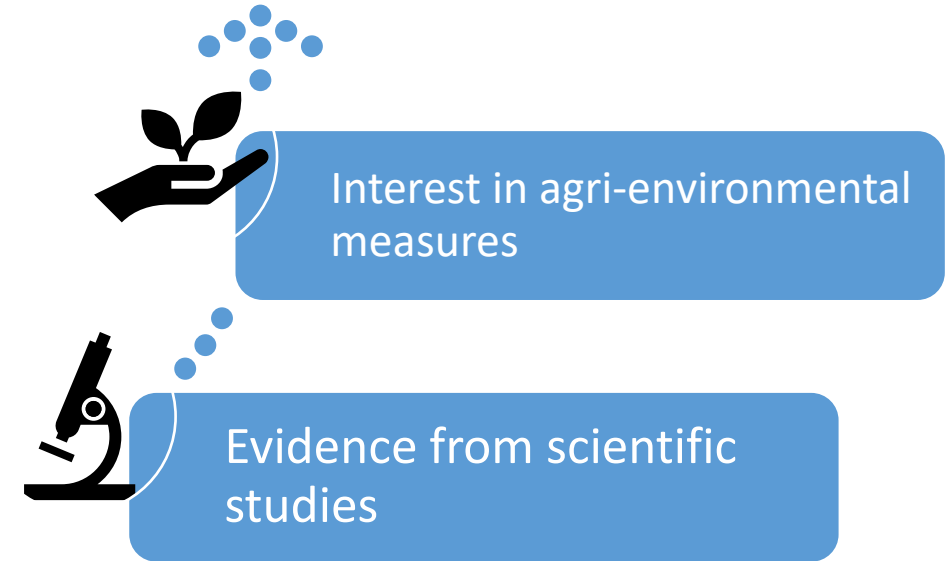


Real – World approach to Pollinator Conservation measures within Scottish Farmland

Alice Walker



What is the importance?



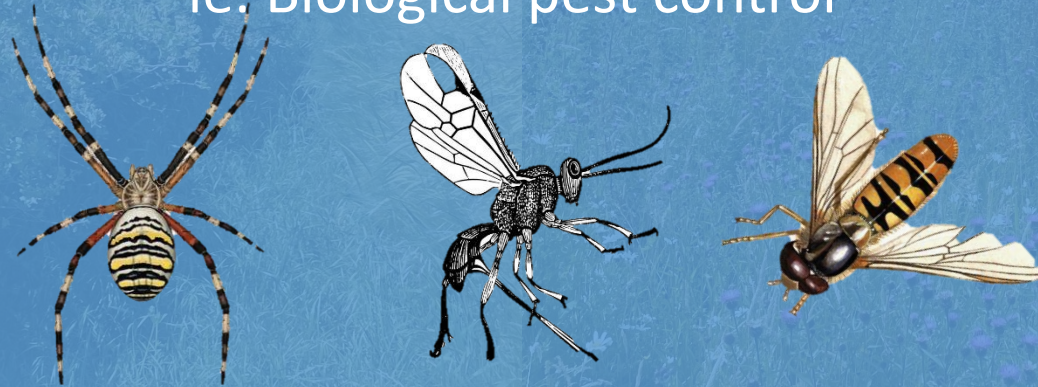
Real-world approach

- To consider other **environmental, social and economical barriers** which could impact the outcome or prevent the uptake of a measure

Why were these measures chosen?

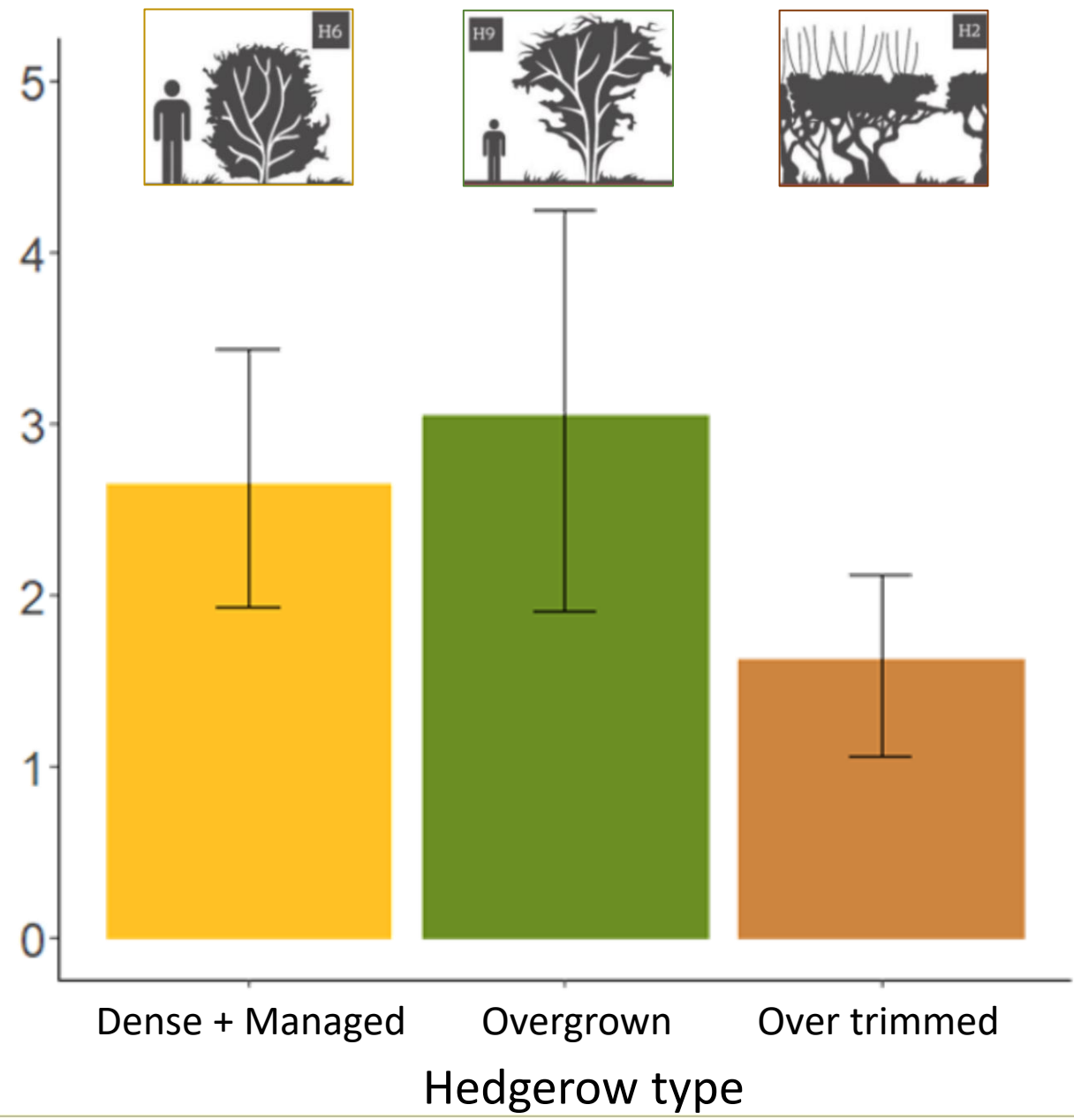
- Relative cost effectiveness
- Known impact on wild insect pollinator communities
- Potential to support other biodiversity impacts and crop regulating effects

ie. Biological pest control





Number of hoverfly species



Task 1: For each measure rate how likely you are to implement it. Share any barriers to implementation that you may face and any solutions that you may have to barriers.

GDPR

Winter cover

How we will use your data

sruc.ac.uk

Privacy notice, GDPR & cookies

Data collected will be stored securely and will abide by SRUC's Data Handling and Privacy Policy. Data will be held in our records for a period of no longer than 7 years. Data will be accessed only by the project team (i.e. SRUC, JHI, & Moredun Institute). Anonymity

Description

Retain stubbles from a combinable crop over the winter. Stubble area to be left undisturbed until 1 March. Implementation could be extended using cover crops: plant specific species mix after summer harvest to keep living roots in the soil.

Rate

Rate 1 - unlikely to implement, 5 = likely to implement

Short harvest window

There is a narrow window of harvest in Scotland making it

Workshop Part 2: Focus on hedgerows and field margins

Opportunity to feed into a wider range of options online via our online think tank



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Barriers and solutions to the Scottish government's key list of measures - Farmer Questionnaire

Participant information sheet and Consent statement: 09/01/2024

During this 30-minute long AHDB roadshow workshop, you are being invited to participate in a discussion (20 mins) and a questionnaire (10 mins). Participation is on a voluntary basis and you are free to withdraw your participation at any time and without explanation.

The purpose of this study is to identify the main barriers farmers may face when implementing management actions outlined in the Scottish government's list of measures. We are particularly interested in **pollinator field margins** and **enhancing hedgerows**. We would also like to learn of any potential solutions and encourage the sharing of this knowledge during the workshop.

The findings of this study will be communicated back to the Scottish Government to help ensure future policy is fit for purpose in the real-world. The findings will be published in a peer-reviewed academic journal, which we will endeavour to make openly available. This study is funded by the SRUC program and NERC, and has been designed, administered and will be analysed by SRUC and the University of Edinburgh (UK).

Please note all information gained within this workshop/ questionnaire will be kept strictly confidential and none of the questions will allow you to be identified in any way. Should you wish to withdraw your answers from this survey at any time prior to the publication of results please contact Alice Walker by phone 07881998540 or by email afwalker@sruc.ac.uk, and quote the code at the top of this questionnaire. This code is linked to your responses but has no personal details connected to it. Your response will be held in our records for a period of no longer than 5 years and will not be passed on to any third parties. Data collected will be stored securely and will abide by SRUC's data handling and privacy policy. By participating you are consenting to these terms of data storage and use which have been approved by the SRUC's Ethics Committee.

Please tick here to show that you are willing to participate in this study with the knowledge that you are free to opt out at any time:

Barriers and Solutions to the Scottish Government's key list of measures - Questionnaire

Please enter a unique code into this box. This will allow us to identify your data if you wish it to be removed from the study at a later stage.

1. What is your background?

- | | |
|--|--|
| <input type="checkbox"/> Farmer | <input type="checkbox"/> Advisor |
| <input type="checkbox"/> Agricultural retailer and/ or food/ drink processor | <input type="checkbox"/> Agricultural supplier (agrochemicals, seed, machinery, etc) |
| <input type="checkbox"/> Researcher | <input type="checkbox"/> Student |
| <input type="checkbox"/> Other <i>please specify</i> _____ | |

If you have **ticked Farmer**, please answer the next 4 questions, if not then please move directly to question 6.



Workshop Discussion:

- Identify top 3 barriers to implementation
- Identify potential solutions
 - What have you trailed?
 - Success or Failure?

Measure	Barrier	Severity of barrier	Potential solution to each barrier
Retain and enhance pollinator field margins	1.	1 2 3 4 5	
	2.	1 2 3 4 5	
	3.	1 2 3 4 5	
Enhancing hedgerows	1.	1 2 3 4 5	
	2.	1 2 3 4 5	
	3.	1 2 3 4 5	



What is your top barrier to establishing pollinator strips

- 1) They provide a source of pests, weeds, diseases
- 2) Loss of productive area
- 3) They fail to establish or deteriorate too quickly
- 4) Cost, time or machinery to establish them
- 5) They don't fit my farm infrastructure
- 6) More evidence is needed that benefits outweigh costs
- 7) I don't know what species to plant or how to manage them
- 8) Other barrier



Solutions for pollinator strips and margins

Policy

On Farm

Training

Peer to peer

Funding

Research



- 1) I currently don't have hedgerows
- 2) I don't have the time, money, labour or machinery to improve them
- 3) I find overgrown hedgerows messy
- 4) My current fencing structure
- 5) Risk of pests/weeds/disease or encroachment into the field
- 6) I don't have the knowledge or skills to improve quality
- 7) More evidence is needed that benefits outweigh costs
- 8) Other barrier



Solutions for enhancing existing hedgerows

Policy

On Farm

Training

Peer to peer

Funding

Research



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National Advice Hub
T: 0300 323 0161
E: advice@fas.scot
W: www.fas.scot



Thank you!



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