

United Oilseeds & AHDB Joint Seminar

Networking lunch

Thursday 21 February 2019

United Oilseeds & AHDB Joint Seminar 2019

Welcome and introduction

Chaired by Andrew Cragg, United Oilseeds

United Oilseeds & AHDB Joint Seminar 2019

AHDB overview

Paul Hill

SE Knowledge Exchange Manager, AHDB





- We are a statutory levy board, funded by farmers, growers and others in the supply chain.

INDEPENDENT

- Our purpose is to equip levy payers with, evidence-based information and tools to grow, become more competitive and sustainable





POTATOES

Great Britain



PORK

England



DAIRY

Great Britain



**AGRICULTURE & HORTICULTURE
DEVELOPMENT BOARD**



CEREALS & OILSEEDS

United Kingdom



BEEF & LAMB

England



HORTICULTURE

Great Britain

Cereals & Oilseeds Knowledge Exchange Team



Tim Isaac
Head of Knowledge Exchange



Emily Smith
Knowledge Transfer Manager



Louise Petrakas
Knowledge Exchange Coordinator



Fiona Geary
Knowledge Transfer Officer



Harry Henderson
Knowledge Exchange Technical Manager - Machinery



Knowledge Exchange Manager – Scotland



NEW - Michelle Nuttall
Knowledge Exchange Manager – NW & NI



Richard Meredith
Knowledge Exchange Manager – West and Wales



Philip Dolbear
Knowledge Exchange Manager – South West

NEW - Chris Leslie
Knowledge Exchange Manager - Scotland

NEW - Rose Riby
Knowledge Exchange North East



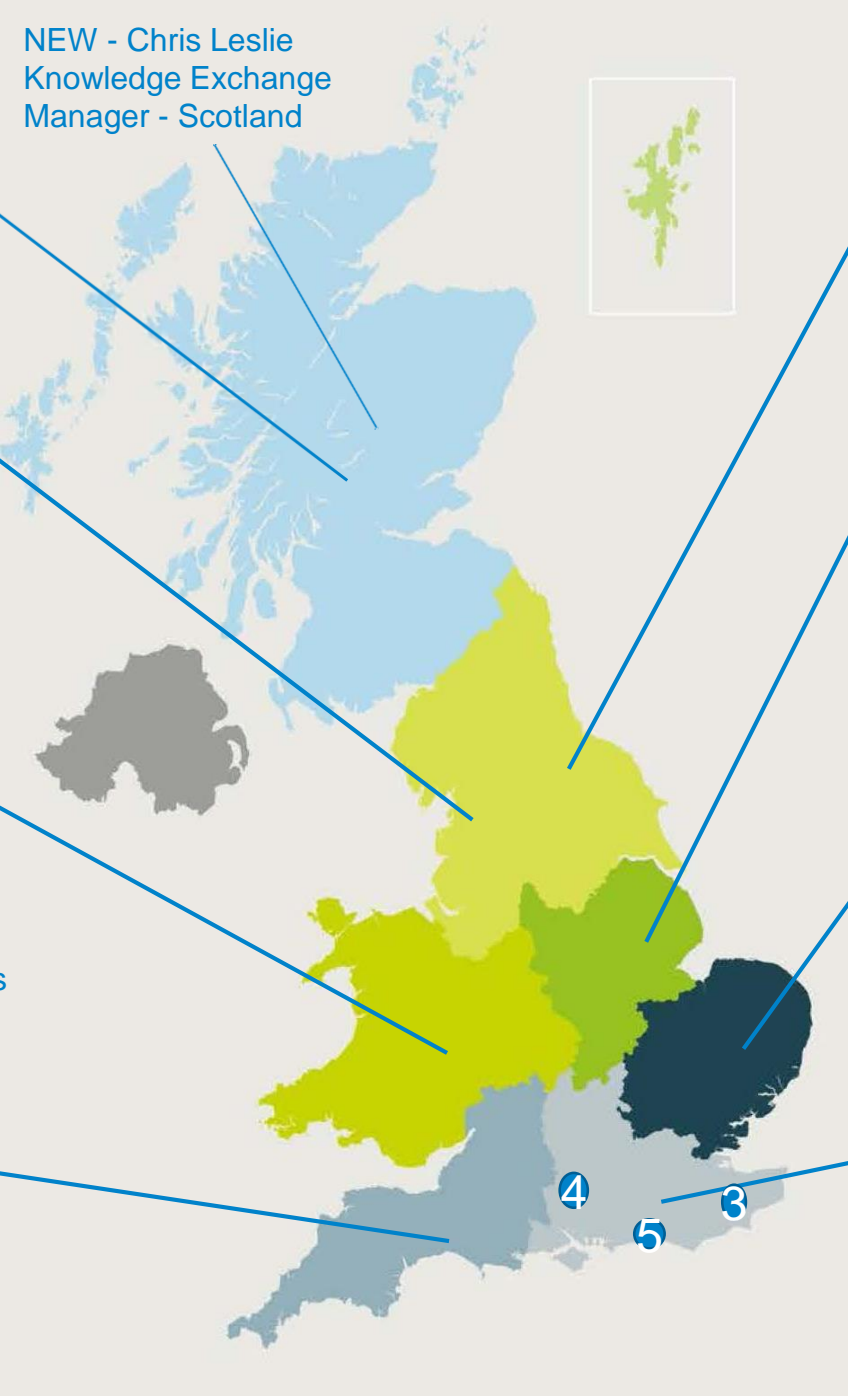
Judith Stafford
Knowledge Exchange Manager – E. Midlands



Teresa Meadows
Knowledge Exchange Manager – East Anglia



Paul Hill
Knowledge Exchange Manager – South East



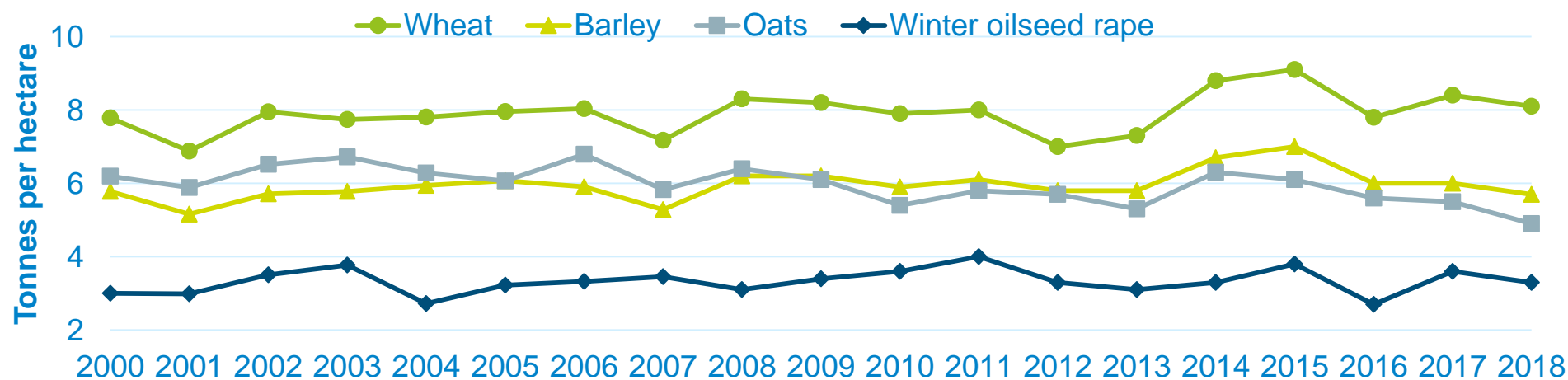
South East crop yields

AHDB
MI



AHDB

Tonnes per hectare	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018		2014 - 2018 ave.	2009 - 2018 ave.	2013 - 2017 ave.	2008 - 2017 ave.	2011 - 2015 ave.	2006 - 2015 ave.
Winter oilseed rape	3.1	3.4	3.6	4.0	3.3	3.1	3.3	3.8	2.7	3.6	3.3		3.3	3.4	3.3	3.4	3.5	3.4



*South East incorporates Berkshire, Buckinghamshire, East Sussex, Hampshire, Isle of Wight, Kent, Oxfordshire, Surrey, West Sussex and London.

Source: Defra

SMARTER FARMING!

Environmental Legislation (natural capital)



- Water / Nutrient regulations
- GHG Regulations (Clean Air strategy 2019)
- Pesticide resistance's & diminishing "actives" IPM
- Grant reductions
- Labour retention
- Land rental - no continuity!
- Supply chain challenges

OPPORTUNITIES???

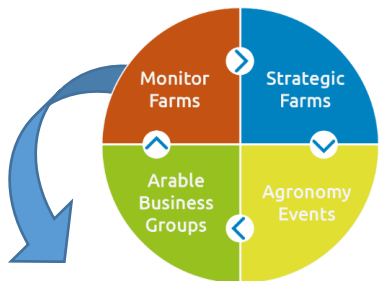


- Public Perception / consumer habits (public money for public goods")
- Brexit ?????? (international competitors, tariffs /boarder controls, disruption for inputs / markets???)

Farm Excellence Platform

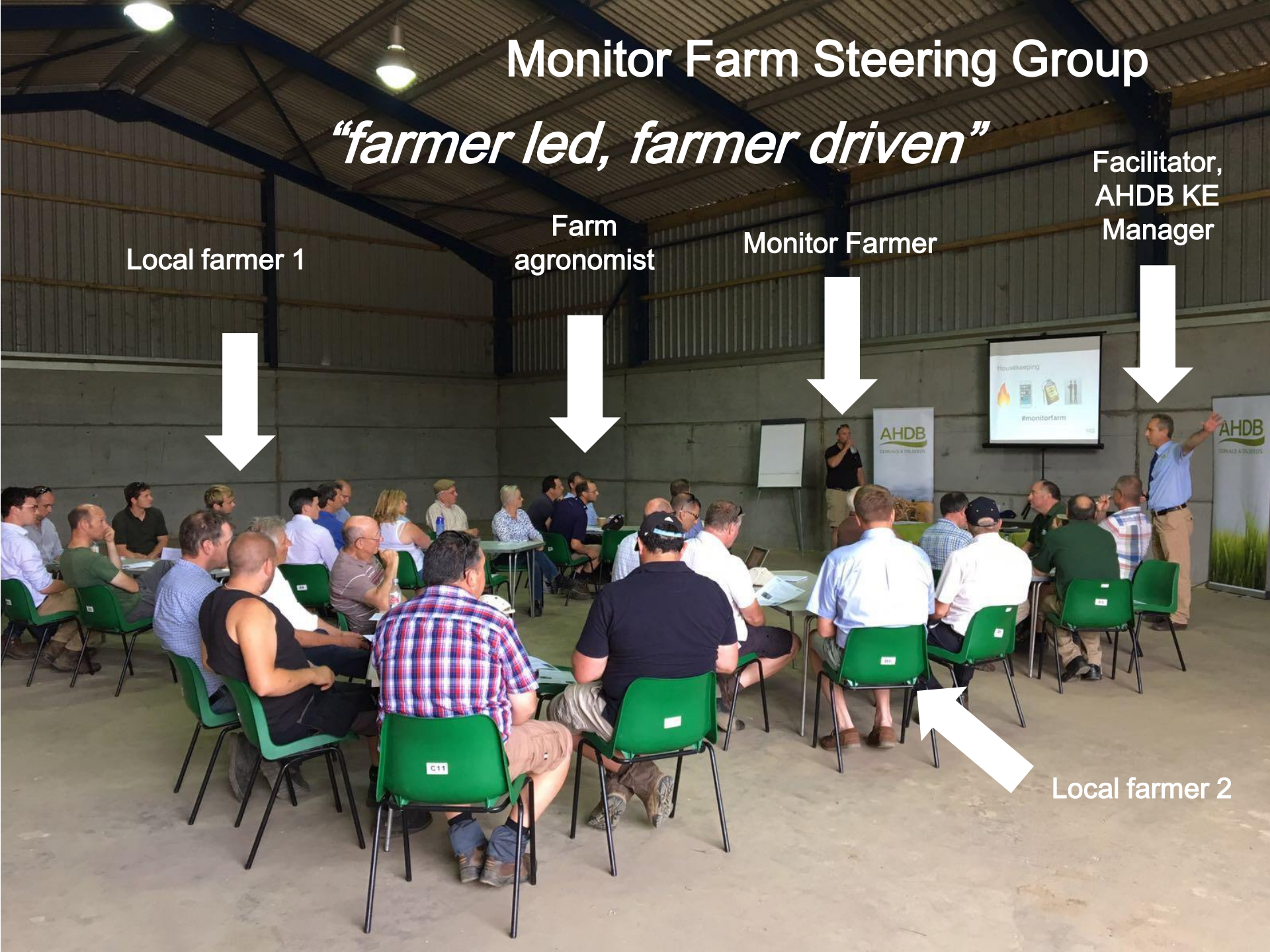
Harnessing the proven benefits of "farmer to farmer" learning



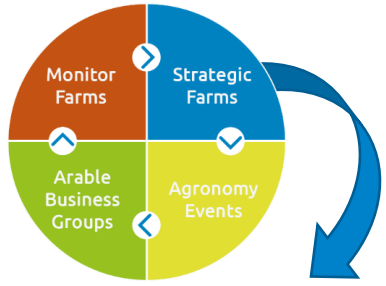


Monitor Farms

Development of business leaders who inspire improvements for the whole industry







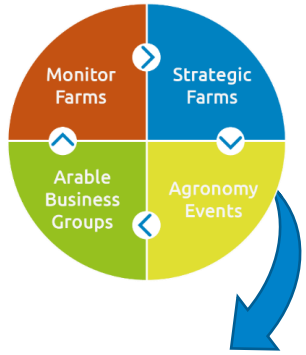
Strategic Farms

Accelerated uptake of technical tools linked to increased productivity

Strategic Farms are based on commercial farms to bridge the gap between research trials and practical application

- 6 year programme
- Farmer-to-farmer learning
- Accelerate the uptake of knowledge
- Explore best practice
- Economic analysis of each demonstration

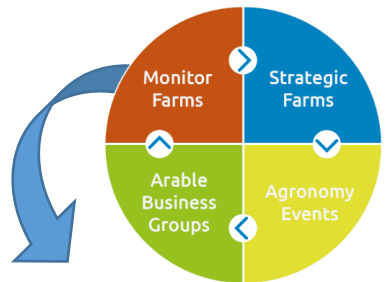




Agronomy Events

Targeted
improvement in key
areas of technical
importance





Increased numbers benchmarking and using it to drive business improvement



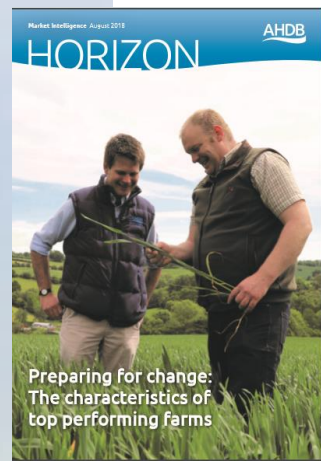
Arable Business Groups

Cropping year 2017 / 2018



- ➔ 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

Focus on detail

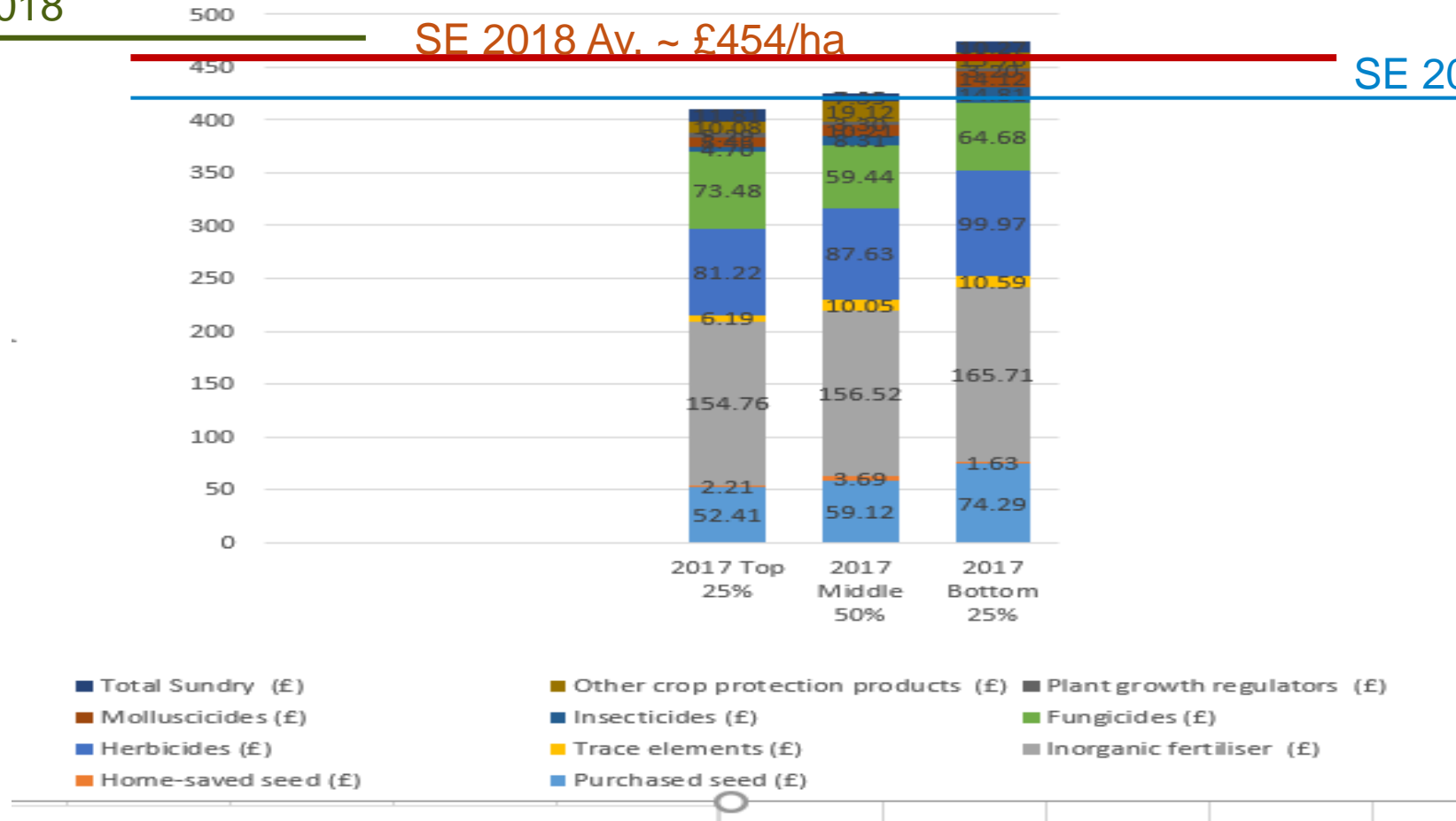


OSR Average Variable Costs – Where are YOU??

FBS Av. 2018
£479/ha

SE 2018 Av. ~ £454/ha

SE 2017 Av. £439/ha



Farmbench.ahdb.org.uk

Motivation for Farmbench:- Unbiased & Uncomplicated

Measure

- Measure & record performance
- Compare performance

Analyse

- Identify performance gaps
- Identify causing factors

Change

- Develop an action plan
- Implement changes



[Home](#) | [FAQs](#) | [Contact](#) | [Case Studies](#) | [User Guides](#)

[Register](#) | [Log in](#)

Unearth your strengths



Farmbench helps you to understand and compare your full costs of production at both enterprise and whole-farm level.



"Benchmarking made us have a good look at what we were doing and how we can change. Whenever I mention it to my accountant or bank manager, they say 'marvellous, that's the thing you ought to be doing.'"

John Thomas, Arable farmer, Vale of Glamorgan



[Home](#) | [FAQs](#) | [Contact](#) | [Case Studies](#) | [User Guides](#)

[My dashboard](#) | [User profile](#) | **[My business](#)** | [My reports](#) | Working with: Report tool: Arable Production year: 2016 | Hello, Rachael | [Log off](#)

[Business](#) | [Enterprise](#) | [Land Allocation & Basic Detail](#) | [Output](#) | [Variable Cost](#) | [Livestock](#) | [Fixed Cost](#) | [Depreciation](#)

Enterprise Details

Wheat - Wheat

Type

Wheat

Name

Wheat

Season

☒ Winter ☐ Spring

First or second

☒ First ☐ Second

Quality (Please choose NABIM Group)

Group 1 - Premium hard wheats

Seed Crop

☐ Yes ☒ No

Hybrid Crop

☐ Yes ☒ No

How many establishment passes?

3

How many treatment passes?

12

Farming System

☐ Organic ☒ Conventional

[Previous](#)

[Save and Next](#)

Ultimately to get more businesses benchmarking

What is the YEN?

“the yield enhancement network connects agricultural organisations and farmers who are striving to improve crop yields”

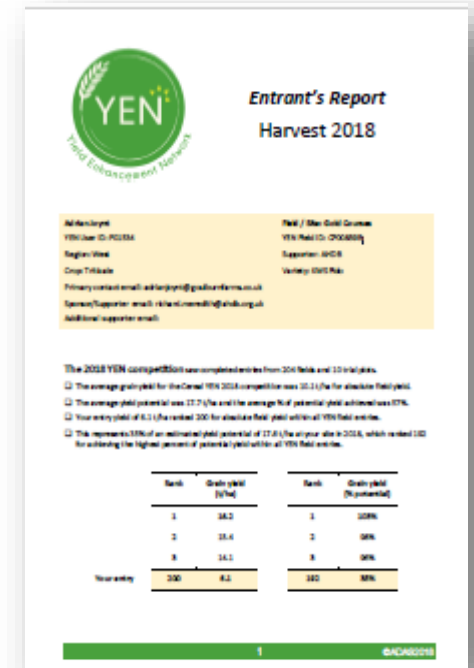
Benchmarking yields

- Compare against other yields
- Compare against potential yield

Technical understanding of yields








- Technical sessions
- Annual awards

Soil health analysis and soil mineral N analysis
Physical and chemical grain analysis



OSR Current research – ones to watch



	Full title	Lead contractor	End date
	Evaluation of resistance levels to Verticillium wilt in UK oilseed rape varieties, and relevance to productivity	NIAB	Nov-18
	Integrating control strategies against soil-borne Rhizoctonia solani in oilseed rape (ICAROS)	University of Nottingham	July 2019
	Understanding risks of severe phoma stem canker caused by Leptosphaeria biglobosa on winter oilseed rape in the UK	University of Hertfordshire	February 2019
	Genetic basis of winter oilseed rape resistance to the cabbage stem flea beetle	John Innes Centre (JIC)	September 2021
	Investigation of high levels of erucic acid in consignments of double zero oilseed rape varieties	NIAB	February 2019
	Maximising the effective life of fungicides to control oilseed rape diseases, through improved resistance management	Rothamsted Research	June 2021
	Sclerotinia risk live-reporting system for oilseed rape	RSK ADAS Ltd	March 2019

Scientists fit SLUGS with tiny trackers to follow their movements around the field!



Helping you protect your soil and improve its productivity

The report can be accessed via cereals.ahdb.org.uk/shp (91140002-APR2018.pdf)

Prototype soil health scorecard results from a site in Shropshire

Indicator	Control	FYM	Slurry	Green compost	Green/food compost	Food-based digestate	Significance level (P)
pH	6.4	7.0	6.4	7.0	6.2	6.5	<0.001
Extractable P (mg/l)	56	73	53	60	59	65	<0.05
Extractable K (mg/l)	80	311	194	187	140	167	<0.001
Extractable Mg (mg/l)	44	87	75	63	66	48	<0.001
Soil organic matter (% LOI)	3.0	4.1	3.6	4.0	3.7	3.4	<0.01
Bulk density (g/cm ³)	1.40	1.34	1.43	1.29	1.40	1.43	Not significant
VESS score	1.2	1.4	1.3	1.1	1.3	1.5	Not significant
PMN (mg/kg)	22.9	90.2	23.8	43.1	37.7	42.5	<0.01

High risk – need to investigate urgently

Moderate risk – need to investigate further

Low risk – continue to monitor

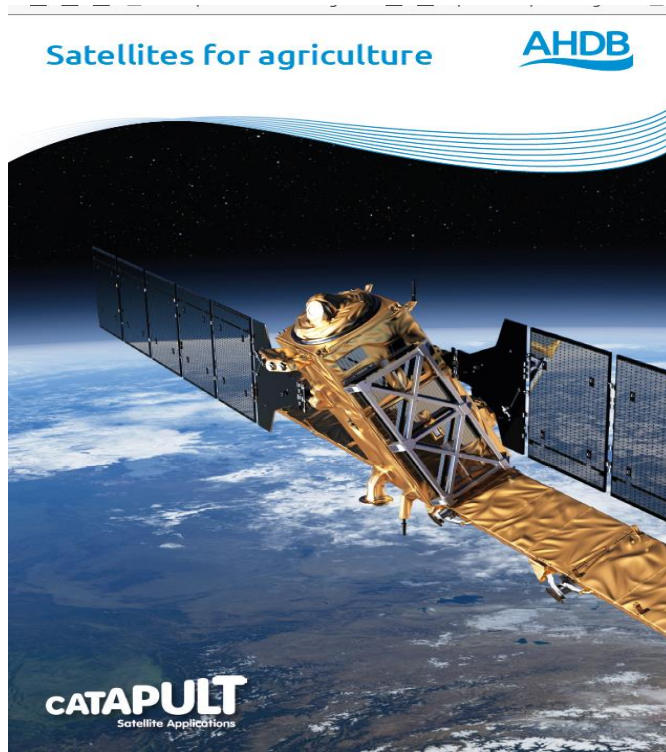


BASIS set to launch qualifications to enhance soil quality



Better Technology

“In image resolution mean that imagery can now reveal meaningful detail in growers’ fields”



Decision-making

➤ WeatherHub

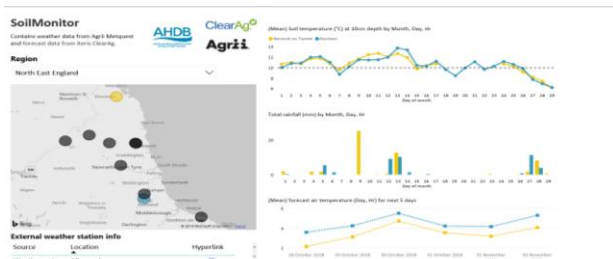
- *Provide evidence-base to farmers to make better informed decisions regarding current and future crop and soil management*

➤ Excess winter rainfall

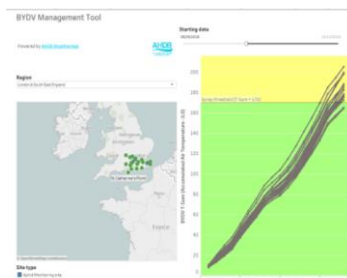
- *We publish information on excess winter rainfall (EWR) to help you estimate potential losses of nitrate through leaching.*

➤ Brexit toolkit ahdb.org.uk/brexit

- *Tools to help analyse your business, plan your direction and act on informed business decisions*



Plan propyzamide applications



OSR - Very early phoma onset forecast

• RB209 App

The Nutrient Management Guide (RB209) provides guidelines for crop nutrient requirements and the nutrient content of organic materials



Sign up to alerts:
comms@ahdb.org.uk

or visit:
cereals.ahdb.org.uk/monitoring

Disease monitoring tools

- Phoma forecast

Provides information on the date when 10% of oilseed rape plants are expected to show symptoms of phoma leaf spot, generally regarded as the treatment threshold

- Light leaf spot forecast

Shows the proportion of the oilseed rape crop (disease resistance rating of 5) estimated to have more than 25% of plants affected by LLS in the spring for the current season

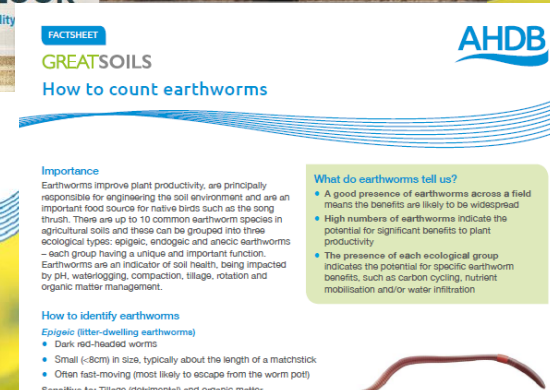
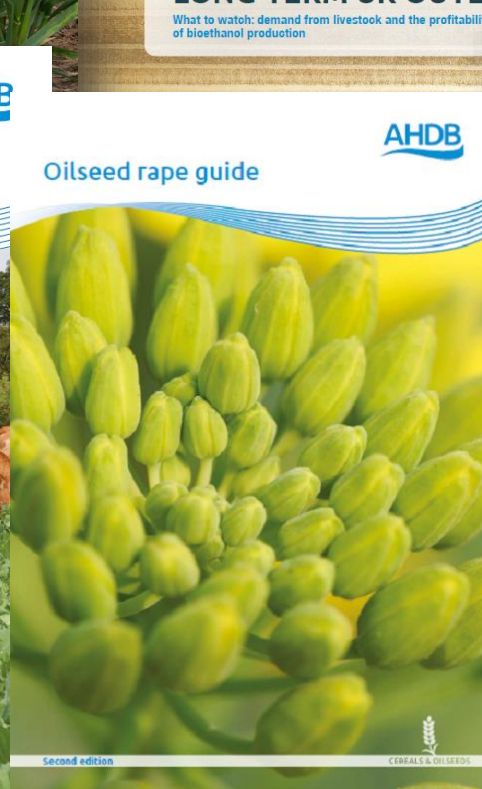
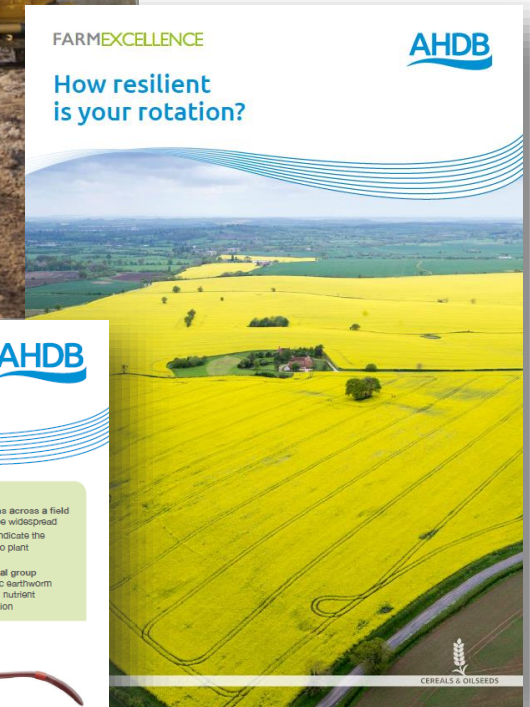
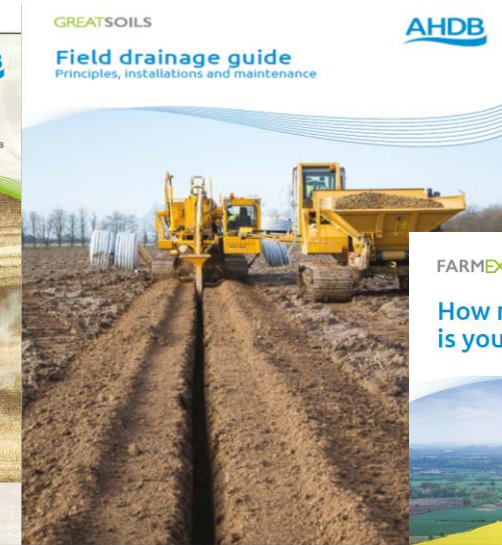
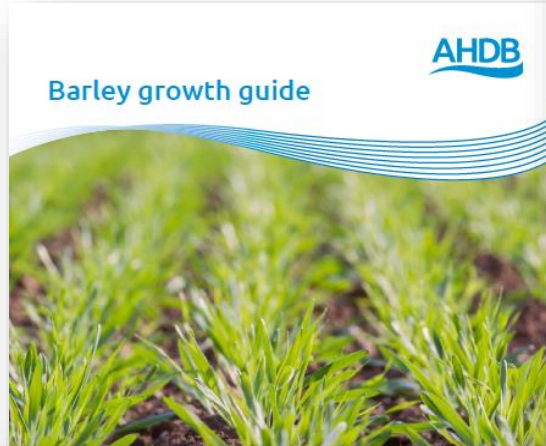
- BYDV management tool

The tool can be used to help you calculate when cereal crops are at the greatest risk of infection

Sign up to alerts:
comms@ahdb.org.uk

or visit:
cereals.ahdb.org.uk/monitoring

Publications



All publications can be accessed at
cereals.ahdb.org.uk/publications

Hard copies can be ordered by emailing:
comms@ahdb.org.uk



Thank you

**‘Inspiring our farmers, growers
and industry to succeed in a
rapidly changing world’**

PAUL HILL

SE Knowledge Exchange Manager

E: Paul.hill@ahdb.org.uk

M: 07964 243699

