

United Oilseeds & AHDB Joint Seminar 2020

# Welcome and introduction

Chaired by Andrew Cragg, United Oilseeds

United Oilseeds & AHDB Joint Seminar 2020

# Farmer experience: Using IPM to continue growing OSR

Jake Freestone, Farm Manager, Overbury Enterprises

- **Introduction**

- Introduction
- **Conservation Agriculture**



- Introduction
- Conservation Agriculture
- **IPM- Working**

- **Introduction**



# Introduction

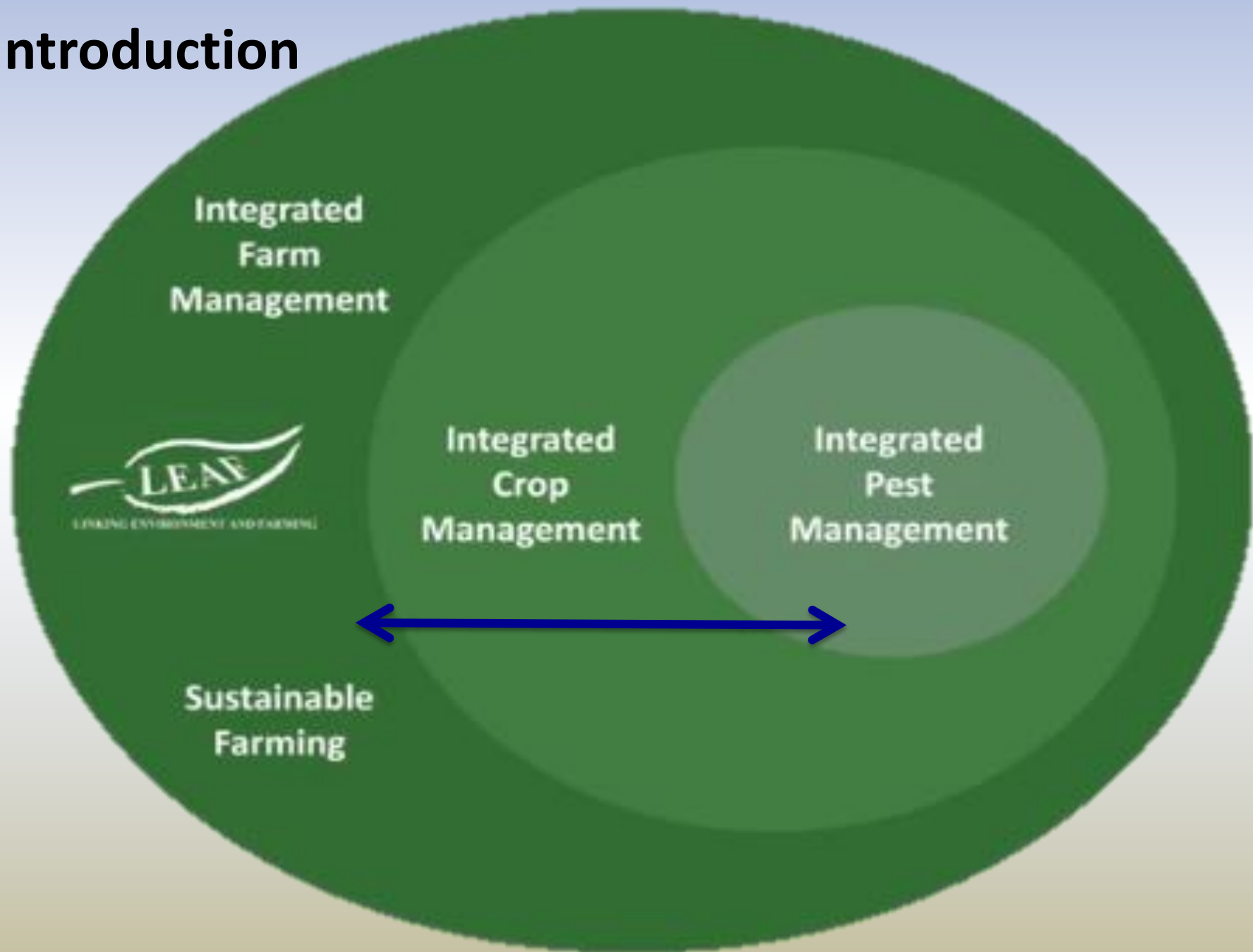




# Introduction

- **Losing active Ingredients**
- **Lost efficacy**
- **Sustainable Use Directive**
- **Public Good, Agricultural Bill**
- **Net Zero**
- **Industry advocates**
- **Opportunity**

# Introduction



# Introduction



- Introduction
- **Conservation Agriculture**

# Conservation Agriculture

- **Minimise soil disturbance**
- **Keep the soil covered**
- **Long and diverse crop rotations**



# Conservation Agriculture





# Minimise Soil Disturbance





# Building a home



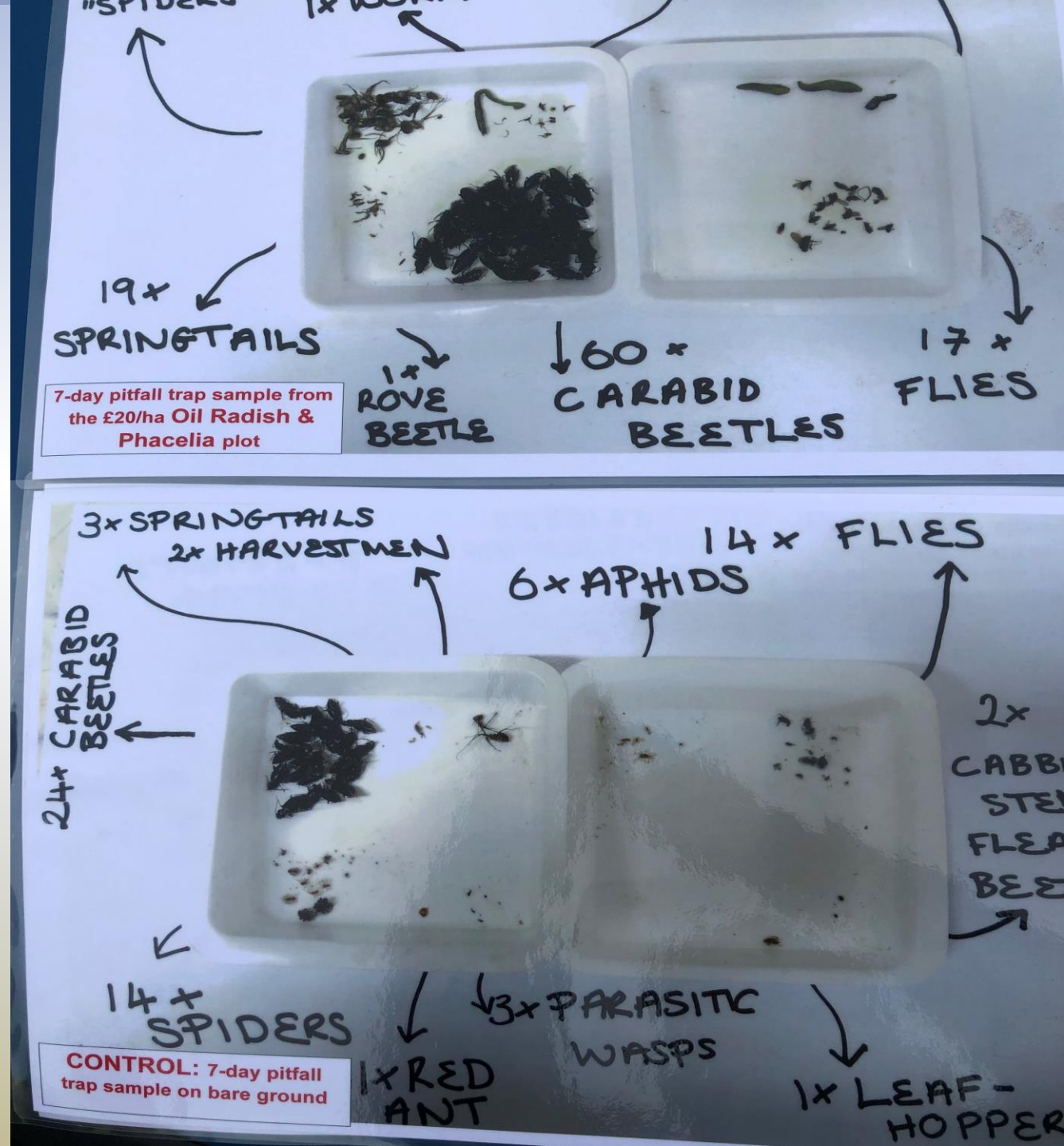


**Increasing  
predators**



Healthier  
soil hosting  
more  
beneficial  
insects and  
pests

Wessex Water





# **Faster, cleaner water infiltration**

Photo courtesy Kamilla Skaalsveen  
@KSkaalsveen





A photograph of a lush green field of cover crops, likely vetch or a similar legume, growing densely. In the upper left background, a red tractor wheel is visible. The text "Keep the Soil Covered" is overlaid in the top left corner.

**Keep the Soil Covered**



**Keep the Soil Covered**





# Rotations





- Introduction
- Conservation Agriculture
- **IPM- Working**

# Integrated Pest Management

- **Rotation**
- **Cover Crops**
- **Cultivation**
- **Variety Choice**
- **Monitoring**
- **Pesticide**



# Rotations

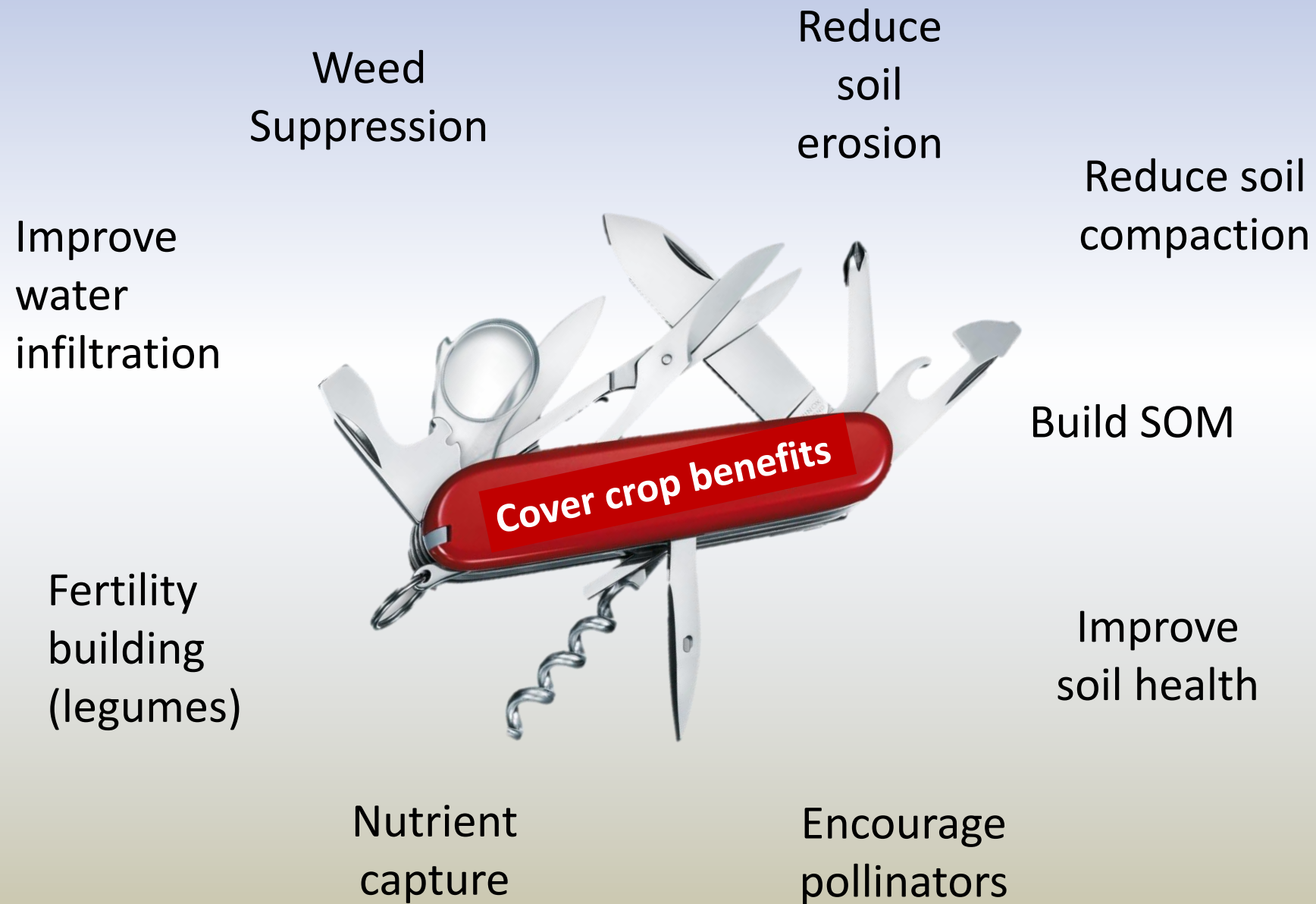




# Cover Crops







# Cover Crops



# Variety Choice



Recommended for the UK (both East/West and North regions)

Recommended for the East/West region

	Acacia	Ambassador	Aurelia	Artemis	Aspire	Aardvark	Ballad	DK Expansion	Temptation	Architect	Nikita	V 316 CL	PT279CL &	Dazzler	Darling	PT275	Windozz
Variety type	Conv	RH	RH	RH	Conv	Conv	Conv	RH	RH	RH	Conv	RH	RH	RH	RH	RH	RH
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	(Sp)	(Sp)	UK	Sp	Sp	E/W	E/W	E/W	E/W
	NEW	NEW	NEW	NEW		NEW				*	*C	C		NEW	NEW		*
Gross output, yield adjusted for oil content (% treated control)																	
United Kingdom (5.1 t/ha)	109	108	108	107	106	105	105	103	103	101	100	98	96	103	103	102	102
East/West region (5.0 t/ha)	110	108	107	107	106	105	105	103	103	101	99	98	96	104	103	103	103
North region (5.7 t/ha)	108	[104]	108	[106]	105	106	102	104	98	97	102	97	92	[101]	[102]	98	99
Seed yield (% treated control)																	
United Kingdom (4.7 t/ha)	109	108	108	106	105	105	104	103	102	101	99	98	96	102	103	102	104
East/West region (4.7 t/ha)	109	109	108	106	105	105	104	103	102	102	99	99	96	103	103	103	104
North region (5.2 t/ha)	107	[105]	109	[106]	105	105	102	104	97	98	102	97	93	[100]	[101]	98	101
Untreated gross output, yield adjusted for oil content (% untreated control) □																	
United Kingdom (5.3 t/ha)	-	-	-	-	105	-	101	100	106	101	101	98	95	-	-	101	101
Untreated seed yield (% untreated control) □																	
United Kingdom (5.0 t/ha)	-	-	-	-	105	-	101	101	105	101	101	98	95	-	-	101	102
Agronomic features																	
Resistance to lodging (1–9)	[8]	[8]	[8]	[8]	8	[8]	8	8	8	8	8	8	8	[8]	[8]	8	8
Stem stiffness (1–9)	9	8	8	8	9	8	8	8	7	8	8	8	8	9	8	8	8
Shortness of stem (1–9)	7	6	6	5	7	6	7	5	6	6	7	6	6	6	6	6	7
Earliness of flowering (1–9)	6	7	7	6	7	8	7	6	6	6	7	6	6	8	7	5	8
Earliness of maturity (1–9)	5	6	5	6	5	5	4	5	5	6	5	5	6	6	5	5	5
Seed quality (at 9% moisture)																	
Oil content, fungicide-treated (%)	45.7	45.3	45.2	45.7	45.7	45.7	45.8	45.5	46.0	45.0	45.7	45.3	44.9	46.2	46.0	45.5	44.5
Glucosinolate (µmoles/g of seed)	8.1	10.9	10.2	12.3	9.9	10.0	10.8	10.1	12.0	14.4	8.6	12.3	10.9	11.1	12.2	8.4	9.6
Disease resistance																	
Light leaf spot (1–9)	6	7	8	6	7	7	6	6	6	5	7	6	6	6	6	6	5
Stem canker (1–9)	5	8	8	7	6	6	5	7	5	5	4	5	5	8	8	5	5
TuYV	-	R	R	R	R	-	-	-	R	R	-	-	-	R	R	-	-

Varieties no longer listed in the UK (both East/West and North regions): Alizze, Campus and Mentor.

Varieties no longer listed in the East/West region: Aquila, Ergo, Flamingo and Wembley.

HEAR (High Erucic Acid) and semi-dwarf varieties are described. Data are provided for information only and do not constitute a recommendation.

On the 1–9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance).

The target (spring) plant population is 40 plants/m<sup>2</sup> for RL trials. Maximum seed rate is 70 seeds/m<sup>2</sup> and may be lower if conditions permit.

Glucosinolate contents are taken from the National List trials data.



# Monitoring



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## Sclerotinia stem rot

### ***Sclerotinia infection risk alert map***

*A traffic-light system highlights the weather-based\* sclerotinia infection alert status at UK sites.*

**Sclerotinia control products are protectants and should be applied prior to infection (before charts show amber/red)**



# Pesticides

- Right advice
- Right product
- Right rate of active
- Water quality and volume
- Application technique





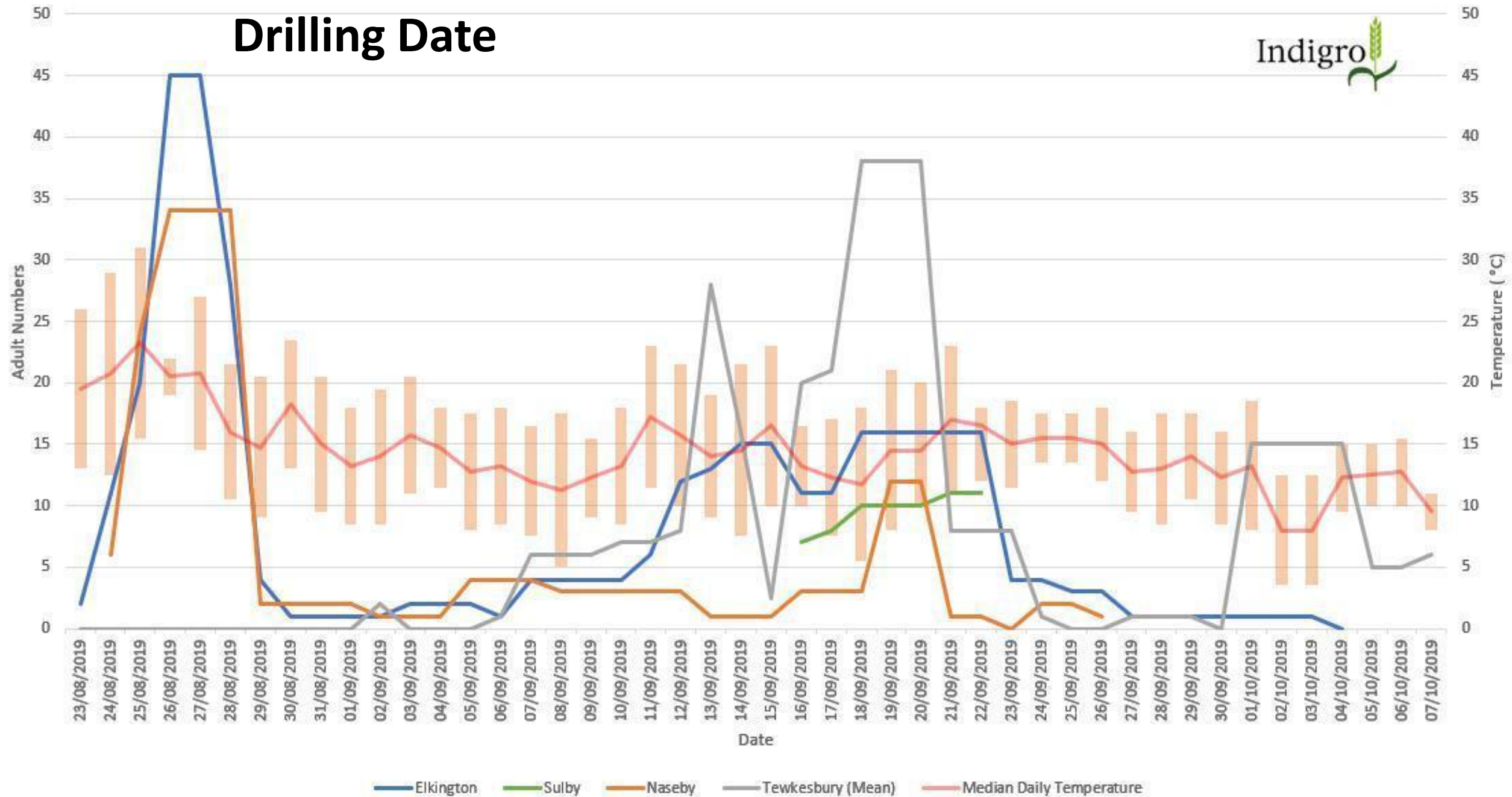




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- The background of the slide is a photograph of a field. It shows a dense layer of dry, yellowish-brown straw or crop residue on the ground. Several green, leafy plants are growing through the straw, some in the foreground and some in the background. The lighting is natural, suggesting daylight. A semi-transparent olive-green rectangle is overlaid on the center of the image, containing a list of six items.
- Drilling date
  - Seed & fert
  - Companions
  - Residue
  - Cultivations
  - Moisture



# Drilling Date





**Seed and fert**





# Companions

Vetch

Oilseed Rape

Berseem Clover











**Costs/Ha**

**Benefits £/Ha**

**Seed      £30**

**Herbicide    £35**

**Fertiliser    £25**

**Net Benefit  
£35/Ha**

**Insecticide   £5**



# Residue





# Cultivations





**Moisture**





# Integrated Pest Management in Summary

- **System approach**
- **Maintain margin**
- **Exciting way to farm**
- **Future support?**
- **Reverse the decline**

“Never be afraid to try  
something new.  
Remember amateurs built the  
Ark...  
professionals built the  
titanic.....”



@No1FarmerJake