



Further information

For further information on the New Farming Systems Project please go to the NIAB website (www.niab.com) or email info@niab.com.

The STAR Project is

managed by NIAB TAG in conjunction with an independent advisory group and supported by The Felix Thornley Cobbold Trust and historically The Chadacre Agricultuiral Trust.









STAR Project

(Sustainability Trial for Arable Rotations)

The project started in 2005 and is fully replicated on large plots using farm scale equipment.

The research:

- examines different cultivation systems for sustainable arable production.
- evaluates different rotation systems and how they interact with the required cultivations and inputs.



The STAR Project is located in Suffolk on a clay loam soil. The research uses a fully replicated factorial design and is undertaken on large plots $(36m \times 36m)$ using farm scale equipment and techniques.

ROTATIONS

Winter Cropping

(winter wheat with winter break crops)

Spring Cropping

(winter wheat with spring break crops)

Continuous Wheat

Alternate Fallow

ESTABLISHMENT

Annual Plough

Deep Non-Inversion Tillage (targeting 20-25 cm)

Shallow Non-Inversion Tillage (targeting ca. 10 cm)

Managed Approach (quided by field assessment)

STAR Project Cropping Plan

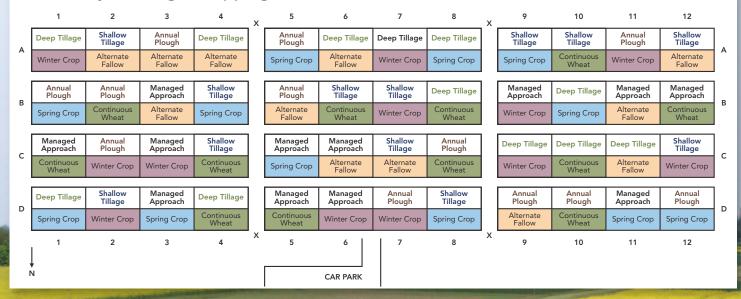
	Cropping											
Rotation	2006 (Year 1)	2007 (Year 2)	2008 (Year 3)	2009 (Year 4)	2010 (Year 5)	2011 (Year 6)	2012 (Year 7)	2013 (Year 8)	2014 (Year 9)	2015 (Year 10)	2016 (Year 11)	2017 (Year 12)
Winter Cropping	Winter OSR	Wheat	Winter Beans	Wheat	Winter OSR	Wheat	Winter Beans	Wheat	Winter OSR	Wheat	Winter Beans	Wheat
Spring Cropping	Spring Beans	Wheat	Spring Oats	Wheat	Spring Beans	Wheat	Spring Linseed	Wheat	Spring Oats	Wheat	Spring Beans	Wheat
Continuous Wheat	Wheat	Wheat	Wheat	Wheat	Wheat	Wheat						
Alternate Fallow	Fallow	Wheat	Fallow	Wheat	Fallow	Wheat	Fallow	Wheat	Fallow	Wheat	Fallow	Wheat

FOUR ROTATIONS

FOUR CULTIVATION SYSTEMS

THREE REPLICATES

STAR Project Tillage/Cropping Plan



STAR Project overview

- The STAR project is a long term rotational systems study examining the interaction between four different rotations and four different cultivation methods.
- The impact of rotation and cultivation on weed burden, soil condition and mycotoxin risks are becoming increasingly apparent as the study progresses.
- With regard to cultivation system the highest margins are associated with a managed approach.
- With regard to rotation the highest margins are associated with winter cropping systems.
- Differences in crop performance over time and gross margin ranking order between systems are being seen as the study progresses.