



## SUSTAINABLE SYSTEM SEES PROFIT INCREASE AND CLIMATE CHANGE CUT

All results compare sustainable system 2 (light till / direct drill) against the conventional system (plough based)

	REDUCTION IN FUEL USE	INCREASE IN WORK RATE (HR/HA)	REDUCTION IN OPERATIONS COSTS	REDUCTION IN CROP ESTABLISHMENT	INCREASE IN BIRD SIGHTINGS	INCREASE IN EARTHWORMS
LENHAM light land site	65%	54%	8%	3%	105%	49%
LODDINGTON heavy land site	50%	46%	10%	8%	90%	5%

### YIELD vs. PROFIT

	REDUCTION IN YIELD	INCREASE IN NET PROFIT
LENHAM	3%	18%
LODDINGTON	9%	5%

Yields under Sustainable System 2 have marginally declined – primarily due to seasonal weather conditions. However, calculating overall net profitability, the Sustainable System 2 consistently achieved greater net profit, compared to the conventional system.

### CLIMATE CHANGE – GREENHOUSE GASSES

	REDUCTION IN SOIL GHG EMISSIONS	REDUCTION IN CARBON FOOTPRINT
LENHAM	17%	9%
LODDINGTON	16%	9%

Switching to Sustainable System 2 has reduced CO<sub>2</sub> emissions by an average 9% across both light and heavy land sites – equivalent to 100 kg CO<sub>2</sub>/ha equivalent to 9.5 kg/ t of crop produced.

Combining measurements of carbon dioxide, methane and nitrous oxide to a CO<sub>2</sub> equivalence shows a reduction of 16-17% with low till systems on both sites, compared to the conventional (plough) system, which calculates to a saving of 8.3 t/ha/year.



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ON SUSTAINABLE  
FARMING

# THREE YEARS WHOLE FARM ROTATION RESULTS NOW IN



“THERE IS A CLEAR NEED FOR A SYSTEM SHIFT IN THE WAY CROPS ARE PRODUCED AND TO MANAGE RISK.”



“GROWERS’ EMPHASIS HAS TO SWITCH TO GENERATING MARGIN AND PROFITABILITY THROUGH THE WHOLE ROTATION, RATHER THAN YIELD PER SE.”



“DIRECT COMPARISON, IN THE SAME FIELDS, THROUGH A WHOLE ROTATION, WILL GIVE A FAR BETTER PICTURE OF PERFORMANCE OF THE SYSTEMS.”

