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## Yields of the Field Experiments 1989

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### 89/R/RA/5 Oversowing in Wheat - W. Oilseed Rape

#### Rothamsted Research

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89/R/RA/5

WINTER OILSEED RAPE

OVERSOWING IN WHEAT

**Object:** To study the establishment of rape after s. wheat by oversowing into the wheat - Summerdells II.

**Sponsors:** R.J. Darby, D.P. Yeoman.

**Design:** 3 randomised blocks of 6 whole plots split into 2 sub plots.

**Whole plot dimensions:** 8.0 x 15.0.

**Treatments:** All combinations of:-

Whole plots

1. **SOWING** Methods of sowing and straw disposal:

OVERS BA	Oversown on 7 Sept, 1988, straw baled on 9 Sept and bales removed
OVERS CH	Oversown on 7 Sept, straw chopped and spread on 9 Sept
CONVEN S	Straw baled on 9 Sept and bales removed, conventionally sown into conventionally prepared seedbed

2. **SEEDRATE** Seed rate (kg):

8  
16

Sub plots

**N RATE** Nitrogen fertilizer as 'Nitram':

0	None
50	50 kg N to seedbed (post-sowing to OVERS BA and OVERS CH) on 13 Sept, 1988

**NOTES:** (1) Oversowing was done into standing s. wheat. The wheat was harvested the next day.  
(2) SOWING CONVEN S plots were cultivated by rotary grubber on 12 Sept, 1988, rotary harrowed and the seed sown on 14 Sept.

**Basal applications:** Manures: 'Nitram' at 580 kg. Weedkillers: Metazachlor at 1.2 kg with fluazifop-p-butyl at 0.19 kg in 260 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Agral' at 0.50 l) in 520 l.

**Seed:** Ariana, dressed gamma HCH, thiram and fenpropimorph.

**Cultivations, etc.:-** Weedkillers applied: 17 Oct, 1988. Basal N applied: 14 Feb, 1989. Desiccant with wetting agent applied: 11 July. Combine harvested: 20 July. Previous crops: W. barley 1987, s. wheat 1988.

**NOTE:** Plant counts were made in autumn and in early March. Percentages of oil in the grain were measured.

89/R/RA/5

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

SEEDRATE	8	16	Mean
<b>SOWING</b>			
OVERS BA	1.83	1.79	1.81
OVERS CH	0.91	1.41	1.16
CONVEN S	1.04	1.33	1.18
Mean	1.26	1.51	1.38

N RATE	0	50	Mean
<b>SOWING</b>			
OVERS BA	1.53	2.09	1.81
OVERS CH	0.68	1.64	1.16
CONVEN S	0.92	1.45	1.18
Mean	1.04	1.73	1.38

N RATE	0	50	Mean
<b>SEEDRATE</b>			
8	1.06	1.46	1.26
16	1.02	1.99	1.51
Mean	1.04	1.73	1.38

	N RATE	0	50
<b>SOWING SEEDRATE</b>			
OVERS BA	8	1.64	2.02
	16	1.43	2.16
OVERS CH	8	0.72	1.09
	16	0.63	2.19
CONVEN S	8	0.82	1.27
	16	1.01	1.64

\*\*\* Standard errors of differences of means \*\*\*

	SOWING	SEEDRATE	N RATE	SOWING SEEDRATE
	0.220	0.179	0.200	0.310
	SOWING N RATE	SEEDRATE N RATE	SOWING SEEDRATE N RATE	
	0.329	0.268	0.465	
Except when comparing means with the same level(s) of	0.346	0.283	0.489	
<b>SOWING SEEDRATE</b>				
<b>SOWING. SEEDRATE</b>				

\*\*\*\*\* Stratum standard errors and coefficients of variation \*\*\*\*\*

Stratum	d.f.	s.e.	cv%
BLOCK.WP	10	0.380	27.5
BLOCK.WP.SP	12	0.599	43.3

GRAIN MEAN DM% 90.8 SUB PLOT AREA HARVESTED 0.00345