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# Yields of the Field Experiments 1987

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## 87/R/RA/11 Oversowing in Wheat - W. Oilseed Rape

### Rothamsted Research

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87/R/RA/11

WINTER OILSEED RAPE

OVERSOWING IN WHEAT

Object: To study the establishment of rape after wheat by oversowing into the wheat - Great Knott III.

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

Design: 3 randomised blocks of 3 plots split into 3 sub plots.

Whole plot dimensions: 15.0 x 16.0.

Treatments: All combinations of:-

Whole plots

- |           |   |
|-----------|---|
| 1. SOWING | Methods of sowing and straw disposal:   |
| OVERS BA  | Oversown on 20 Aug, 1986, straw baled on 21 Aug                                 |
| OVERS CH  | Oversown on 20 Aug, 1986, straw chopped and spread on 21 Aug                    |
| CONVEN S  | Straw baled on 21 Aug, conventionally sown into conventionally prepared seedbed |

Sub plots

- |           |   |
|-----------|---|
| 2. N TIME | Timing of nitrogen as 'Nitram'. (Total spring N same for all treatments): |
| SN FN MN  | 50 kg N to seedbed, 50 kg N on 19 Feb, 1987 and 150 kg N on 19 Mar        |
| - FN -    | 200 kg N on 19 Feb  |
| - FN MN   | 50 kg N on 19 Feb and 150 kg N on 19 Mar                                  |

- NOTES: (1) Oversowing was done into standing wheat. The wheat was harvested later that day.  
(2) SOWING CONVEN S plots were ploughed and rolled on 22 Aug, rotary harrowed on 31 Aug.  
(3) SOWING OVERS BA and OVERS CH plots were sprayed with fluazifop-P-butyl at 0.19 kg with a wetting agent ('Agral' at 0.38 l) in 380 l on 26 Sept.  
(4) One whole plot CONVEN S was missing. An estimated value was used in the analysis.

Basal applications: Weedkillers: Clopyralid and propyzamide (as 'Matrikerb' at 1.6 kg) in 500 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Agral' at 0.50 l) in 500 l.

Seed: Ariana, dressed gamma HCH, thiram and fenpropimorph, sown at 8.0 kg.

Cultivations, etc.:- Weedkillers applied: 20 Nov, 1986. Desiccant with wetting agent applied: 31 July, 1987. Combine harvested: 6 Aug. Previous crops: W. wheat 1985 and 1986.

NOTE: Plant counts were made in autumn and again in mid-March.

87/R/RA/11

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

	N TIME	SN FN MN	- FN -	- FN MN	Mean
SOWING					
OVERS BA		3.61	3.51	3.38	3.50
OVERS CH		3.47	2.86	2.66	3.00
CONVEN S		3.51	3.28	3.22	3.34
Mean		3.53	3.22	3.09	3.28

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

Table	N TIME	SOWING*
s.e.d.	0.184	0.319

\* Within same level of SOWING only

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP.SP	10	0.391	11.9

GRAIN MEAN DM% 75.2

SUB PLOT AREA HARVESTED 0.00368