

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1988

[Full Table of Content](#)



---

### 88/R/RA/8 Oversowing in Wheat - W. Oilseed Rape

#### Rothamsted Research

Rothamsted Research (1989) *88/R/RA/8 Oversowing in Wheat - W. Oilseed Rape* ; Yields Of The Field Experiments 1988, pp 236 - 237 - DOI: <https://doi.org/10.23637/ERADOC-1-43>

88/R/RA/8

**WINTER OILSEED RAPE**

**OVERSOWING IN WHEAT**

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

**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. <b>SOWING</b> | Methods of sowing and straw disposal:   |
| OVERS BA         | Oversown on 3 Sept, 1987, straw baled on 8 Sept and bales removed                                 |
| OVERS CH         | Oversown on 3 Sept, straw chopped and spread on 8 Sept  |
| CONVEN S         | Straw baled on 8 Sept and bales removed, conventionally sown into conventionally prepared seedbed |

- |                    |                 |
|--------------------|-----------------|
| 2. <b>SEEDRATE</b> | Seed rate (kg): |
|--------------------|-----------------|

8  
16

Sub plots

- |               |   |
|---------------|---|
| <b>N RATE</b> | Nitrogen fertilizer as 'Nitram':  |
| 0             | None  |
| 50            | 50 kg N to seedbed (post-sowing to OVERS BA and OVERS CH) on 14 Sept, 1987. |

- NOTES:** (1) Oversowing was done into standing wheat. The wheat was harvested the next day.  
(2) **SOWING** CONVEN S plots were cultivated by rotary grubber on 14 Sept 1987, rotary harrowed and the seed sown on 15 Sept.

**Basal applications:** Manures: 'Nitram' at 580 kg. Weedkillers: Metazachlor at 1.2 kg in 200 l. Fluazifop-p-butyl at 0.18 kg with a wetting agent ('Enhance' at 0.20 l) in 200 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Enhance' at 0.50 l) in 520 l.

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

**Cultivations, etc.:-** Metazachlor applied: 1 Oct, 1987. Fluazifop-p-butyl with wetting agent applied: 24 Oct. Basal N applied: 18 Feb, 1988. Desiccant with wetting agent applied: 27 July. Combine harvested: 8 Aug. Previous crops: Potatoes 1986, w. wheat 1987.

**NOTE:** Plant counts were made in autumn and in mid-February. Percentages of oil in the grain were measured.

88/R/RA/8

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

<b>SEEDRATE</b>	8	16	Mean	
<b>SOWING</b>				
OVERS BA	3.52	3.18	3.35	
OVERS CH	3.37	3.34	3.36	
CONVEN S	3.49	3.13	3.31	
Mean	3.46	3.22	3.34	
<b>N RATE</b>	0	50	Mean	
<b>SOWING</b>				
OVERS BA	3.51	3.19	3.35	
OVERS CH	3.47	3.24	3.36	
CONVEN S	3.52	3.10	3.31	
Mean	3.50	3.18	3.34	
<b>N RATE</b>	0	50	Mean	
<b>SEEDRATE</b>				
8	3.57	3.35	3.46	
16	3.43	3.00	3.22	
Mean	3.50	3.18	3.34	
<b>SEEDRATE</b>	8	16		
<b>SOWING N RATE</b>	0	50	0	50
OVERS BA	3.41	3.63	3.60	2.75
OVERS CH	3.61	3.13	3.34	3.34
CONVEN S	3.69	3.28	3.36	2.91

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

<b>SOWING</b>	<b>SEEDRATE</b>	<b>N RATE</b>	<b>SOWING SEEDRATE</b>
0.167	0.137	0.182	0.237
<b>SOWING N RATE</b>	<b>SEEDRATE N RATE</b>	<b>SOWING SEEDRATE N RATE</b>	
0.279	0.227	0.394	
Except when comparing means with the same level(s) of			
<b>SOWING</b>	0.315		
<b>SEEDRATE</b>		0.257	
<b>SOWING. SEEDRATE</b>			0.445

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	10	0.290	8.7
BLOCK.WP.SP	12	0.545	16.3
GRAIN MEAN DM%	92.6		
SUB PLOT AREA HARVESTED	0.00345		