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

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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. SOWING | 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. **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 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 *****

SEEDRATE	8	16	Mean	
SOWING				
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	
N RATE	0	50	Mean	
SOWING				
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	
N RATE	0	50	Mean	
SEEDRATE				
8	3.57	3.35	3.46	
16	3.43	3.00	3.22	
Mean	3.50	3.18	3.34	
SEEDRATE	8	16		
SOWING N RATE	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 ***

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