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# Yields of the Field Experiments 1995



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# 95/R/RAW/7 Winter Rape Density and Chickweed - W. Oilseed Rape

# **Rothamsted Research**

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### 95/R/RAW/7

### WINTER OILSEED RAPE

### W. RAPE DENSITY AND CHICKWEED

Object: To measure the effects of crop density, autumn nitrogen and the density of chickweed (Stellaria media) on the yield of w. rape - Highfield IV/Road Piece East.

Sponsor: P.J.W. Lutman.

Design: 3 randomised blocks of 4 x 2 x 2 plots.

Whole plot dimensions:  $3.0 \times 14.0$ .

Treatments: All combinations of:-

1. CROP DEN Target w. rape density, plants per m<sup>2</sup>:

C1 25
C2 50

C4 100 C8 200

NOTES: (1) C1 rate was achieved by using 50% dead seed and drilling at the C2 rate.

- (2) Owing to slug damage, a range of 13-222 plants per  $m^2$  was established.
- 2. WEED DEN Chickweed density, average established plants per m2:

W0 0 W1 262

3. N Nitrogen in autumn, kg N:

NO 0 N1 50

# Experimental diary:

27-Jul-94 : B : Dolomite at 5.0 t.

01-Aug-94 : B : Ploughed and furrow pressed.

25-Aug-94 : B : Spring-tine cultivated. : T : N N1: 34.5% N at 145 kg.

: T : WEED DEN W1: Chickweed broadcast.

: T : CROP DEN C1, C2, C4, C8: Rotary harrowed, Apex, dressed Lindex-Plus FS, drilled.

26-Aug-94 : B : Rolled.

20-Sep-94 : B : Draza at 5.5 kg.

02-Nov-94 : B : Fusilade 5 at 1.0 l with Vassgro Spreader at 260 ml in 260 l.

22-Feb-95 : B : 34.5% N at 174 kg. 21-Mar-95 : B : 34.5% N at 348 kg.

11-Apr-95 : B : Barclay Eyetak at 1.1 l in 200 l.

#### 95/R/RAW/7

# Experimental diary:

19-Apr-95 : B : Fastac at 0.2 1 in 200 1.

12-Jul-95 : B : Reglone at 3.0 l with Vassgro Spreader at 400 ml in 400 l.

17-Jul-95 : B : Combine harvested.

Previous crops: W. barley 1993, set-aside 1994.

NOTES: (1) Crop failed on six plots due to slugs with treatment

CROP DEN C1 C2 C1 C4 WEED DEN W0 (twice) W0 (twice) W0 W1 N0 N0 N1 N0

Estimated values were used in the analysis.

(2) Crop and weed density was assessed in September and October. Crop and weed growth was recorded in December, April, May and July.

## GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

WEED DEN		WO	W1	Mean	
CROP DEN					
C1		3.84	2.90	3.37	
C2		3.70	3.91	3.80	
C4		4.29	4.02	4.16	
C8		4.49	4.15	4.32	
Mean		4.08	3.75	3.91	
N		N0	N1	Mean	
CROP DEN					
C1		2.98	3.76	3.37	
C2		3.77	3.84	3.80	
C4		3.95	4.36	4.16	
C8		4.37	4.27	4.32	
Mean		3.77	4.06	3.91	
N		NO	N1	Mean	
WEED DEN					
WO		3.92	4.24	4.08	
W1		3.61	3.88	3.75	
Mean		3.77	4.06	3.91	
WEED	DEN	WO		W1	
CROP DEN	N	NO	N1	NO	N1
C1		3.79	3.89	2.18	3.63
C2		3.35	4.04	4.18	3.64
C4		4.08	4.50	3.81	4.23
C8		4.46	4.51	4.27	4.03

### 95/R/RAW/7

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

CROP DEN	WEED DEN	N	CROP DEN
0.145	0.103	0.103	0.206
CROP DEN	WEED DEN	CROP DEN	
N	N	WEED DEN	
		N	
0.206	0.145	0.291	

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

Stratum d.f. s.e. cv%

BLOCK.WP 24 0.356 9.1

GRAIN MEAN DM% 82.4

PLOT AREA HARVESTED 0.00267