

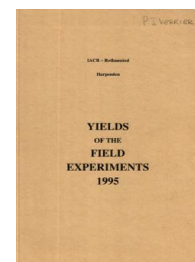
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## Yields of the Field Experiments 1995

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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 x 14.0.

**Treatments:** All combinations of:-

1. <b>CROP DEN</b>	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<sup>2</sup> was established.

2. <b>WEED DEN</b>	Chickweed density, average established plants per m <sup>2</sup> :
W0	0
W1	262
3. <b>N</b>	Nitrogen in autumn, kg N:
N0	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 Eytak at 1.1 l in 200 l.

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**Experimental diary:**

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

<b>CROP DEN</b>	C1	C2	C1	C4
<b>WEED DEN</b>	W0 (twice)	W0 (twice)	W0	W1
	N	N0	N0	N1

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 \*\*\*\*\*

<b>WEED DEN</b>	W0	W1	Mean		
<b>CROP DEN</b>					
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		
	<b>N</b>	N0	N1	Mean	
<b>CROP DEN</b>					
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	
		<b>N</b>	N0	N1	
<b>WEED DEN</b>				Mean	
W0	3.92	3.61	4.24	4.08	
W1	3.61	3.88	3.88	3.75	
Mean	3.77	4.06	3.91		
		<b>WEED DEN</b>	W0	W1	
<b>CROP DEN</b>	<b>N</b>		N0	N1	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
			WEED 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		