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## Yields of the Field Experiments 1993

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### 93/R/LN/2 Weed Competition in Linseed - Linseed

#### Rothamsted Research

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93/R/LN/2

LINSEED

WEED COMPETITION IN LINSEED

**Object:** To investigate the effects of two weed species on each other and on the growth and yield of linseed - Delafield.

**Sponsor:** R.C. Van Acker, P.J.W. Lutman.

**Design:** 2 blocks of 5 x 5 plots.

**Whole plot dimensions:** 3.0 x 10.0.

**Treatments:** All combinations of:-

1. **BRLY DEN** Barley density (established plants per square metre):

B0	0
B1	12
B2	22
B3	39
B4	61

2. **CHCK DEN** Chickweed density (established plants per square metre):

C0	0
C1	50
C2	112
C3	192
C4	381

**NOTES:** (1) Target plant populations (established plants per square metre):

**BRLY DEN** 0, 25, 50, 100, 200

**CHCK DEN** 0, 100, 200, 400, 800

(2) Barley and chickweed seeds were sown on restricted areas of each plot as follows:

**BRLY DEN** central 2m, **CHCK DEN** central 2.5m.

**Experimental diary:**

13-Nov-92 : B : FYM at 25 tonnes.

20-Jan-93 : B : Ploughed.

29-Apr-93 : B : Rotary harrowed.

30-Apr-93 : **T** : **CHCK DEN** C1, C2, C3, C4: Broadcast by hand.

: **T** : **BRLY DEN** B1, B2, B3, B4: Alexis, dressed Cerevax Extra, drilled.

: B : Rotary harrowed, Antares, dressed Prelude 20 LF, drilled at 700 seeds per square metre.

05-May-93 : B : Rolled.

12-May-93 : B : 34.5% N at 220 kg.

93/R/LN/2

**Experimental diary:**

13-May-93 : B : Decis at 0.30 l in 200 l.  
 06-Sep-93 : B : Stefes Diquat at 3.0 l with Vassgro Spreader at 0.30 l  
 in 260 l.  
 17-Sep-93 : B : Harvested by hand.

Previous crops: W. wheat 1992, s. beans 1992.

**NOTE:** Leaf area was measured and ground cover assessed for each species on two occasions. Dry weights of all species were determined on four occasions. On the fourth occasion components of yield of barley and number of chickweed capsules per square metre were measured. Components of yield of linseed were measured at harvest.

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

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

CHCK DEN BRLY DEN	C0	C1	C2	C3	C4	Mean
B0	2.07	2.03	1.93	2.14	2.19	2.07
B1	2.01	1.91	2.13	1.56	1.51	1.82
B2	2.14	1.73	1.65	1.81	1.63	1.79
B3	1.73	1.49	1.47	1.37	1.47	1.51
B4	1.57	1.34	1.31	1.22	1.16	1.32
Mean	1.91	1.70	1.70	1.62	1.59	1.70

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

BRLY DEN	CHCK DEN	BRLY DEN CHCK DEN
0.068	0.068	0.152

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	24	0.152	8.9

GRAIN MEAN DM% \*

PLOT AREA HARVESTED 0.00010