

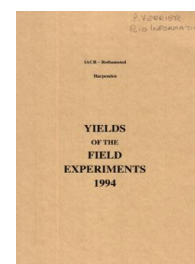
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# Yields of the Field Experiments 1994

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## 94/R/LN/6 Weed Types in Linseed - Linseed

### Rothamsted Research

Rothamsted Research (1995) *94/R/LN/6 Weed Types in Linseed - Linseed ; Yields Of The Field Experiments 1994*, pp 161 - 162 - DOI: <https://doi.org/10.23637/ERADOC-1-49>

94/R/LN/6

## LINSEED

### WEED TYPES IN LINSEED

**Object:** To study the effects of three contrasting weed species on the growth and yield of linseed - Geescroft.

**Sponsor:** P.J.W. Lutman.

**Design:** 3 randomised blocks of (3 x 5) + 2 plots.

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

**Treatments:** All combinations of:-

#### 1. SPECIES

CO	Cultivated oats ( <i>Avena sativa</i> cv. Dula)
FH	Fat hen ( <i>Chenopodium album</i> )
CW	Chickweed ( <i>Stellaria media</i> )

#### 2. RATE

Number of plants established per m<sup>2</sup>:

	CO	FH	CW
0	0	0	0
1	9	6	57
2	25	31	87
3	91	24	232
4	150	55	261

plus two extra plots

#### 3. EXTRA

Number of wild oats (*Avena fatua*) plants established per m<sup>2</sup>:

W1	15
W2	54

**NOTES:** (1) Target 'weed' densities, seeds per m<sup>2</sup>:

**RATE** CO 0 0, CO 1 20, CO 2 60, CO 3 180, CO 4 360  
 FH 0 0, FH 1 100, FH 2 400, FH 3 800, FH 4 1600  
 CW 0 0, CW 1 100, CW 2 200, CW 3 400, CW 4 800

**EXTRA** W1 60, W2 180

(2) Cultivated oats were dressed with Rappor Plus.

#### Experimental diary:

03-Dec-93 : B : Ploughed.

26-Apr-94 : B : Rotary harrowed.

: T : **SPECIES** FH, CW: Seed broadcast by hand.

: T : **SPECIES** CO, **EXTRA** W1, W2: Seed broadcast by machine.

: B : Rotary harrowed, Antares, dressed Prelude 20LF, drilled at 700 seeds per m<sup>2</sup>.

94/R/LN/6

**Experimental diary:**

12-May-94 : B : Ripcord at 250 ml in 200 l.  
 18-May-94 : B : 34.5% N at 220 kg.  
 13-Jun-94 : B : Dow Shield at 0.5 l in 200 l.  
 17-Jun-94 : T : **SPECIES** CO 0, CO 1, CO 2, CO 3, CO 4, FH 0, **EXTRA** W1,  
 W2: Ally at 30 g in 220 l.  
 02-Sep-94 : B : Hand harvested.

Previous crops: W. wheat 1992, s. wheat 1993.

**NOTE:** (1) Weed densities were measured in May. Growth of crop and 'weeds' were measured in June and July.  
 (2) Because of a severe thistle infestation the yields of two plots were lost, those with the treatment combination:  
**SPECIES** CO, **RATE** 0 and **EXTRA** W1.  
 Estimated values were used in the analysis.

**GRAIN (AT 90% DM) TONNES/HECTARE**

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

<b>RATE</b>	0	1	2	3	4	Mean
<b>SPECIES</b>						
CO	0.98	0.71	0.58	0.32	0.20	0.56
FH	0.80	1.07	0.84	0.88	0.69	0.86
CW	0.99	0.92	0.80	0.74	0.79	0.85
Mean	0.93	0.90	0.74	0.65	0.56	0.76
<b>EXTRA</b>						
W1	0.70					
W2	0.51					
Mean	0.58					

GRAND MEAN 0.74

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

<b>SPECIES</b>	<b>RATE</b>	<b>SPECIES RATE &amp; EXTRA</b>
0.056	0.073	0.120

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	30	0.154	20.9
MEAN DM% *			
PLOT AREA HARVESTED	0.00010		