

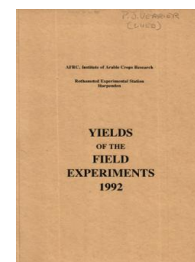
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## Yields of the Field Experiments 1992

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### 92/R/LN/2 Weed Competition and Linseed - Linseed

#### Rothamsted Research

Rothamsted Research (1993) *92/R/LN/2 Weed Competition and Linseed - Linseed* ; Yields Of The Field Experiments 1992, pp 157 - 158 - DOI: <https://doi.org/10.23637/ERADOC-1-47>

92/R/LN/2

LINSEED

WEED COMPETITION AND LINSEED

**Object:** To investigate the effects of weed competition on the growth and yield of linseed - Fosters Corner.

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

**Design:** 3 randomised blocks of 10 plots.

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

**Treatments:** All combinations of:-

1. **SPECIES** Weed species:
- |          |   |
|----------|---|
| CUL OATS | Cultivated oats ( <i>Avena sativa</i> ) to simulate wild oats ( <i>A. fatua</i> ) |
| CHICKWD  | Chickweed ( <i>Stellaria media</i> )  |
2. **DENSITY** Density of established plants (number of plants per square metre):
- |    | Cultivated oats | Chickweed |
|----|-----------------|-----------|
| D0 | 0               | 0         |
| D1 | 6               | 57        |
| D2 | 24              | 159       |
| D3 | 49              | 182       |
| D4 | 119             | 465       |

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

	D0	D1	D2	D3	D4
Cultivated oats	0	10	50	100	200
Chickweed	0	100	200	400	800

(2) Weed species were sown in the central 2 m of each plot.

**Experimental diary:**

- 06-Sep-91 : B : Straw chopped.  
06-Dec-91 : B : Ploughed (start).  
02-Jan-92 : B : Ploughed (finish).  
22-Apr-92 : B : 34.5% N at 220 kg.  
          : B : Spring-tine cultivated.  
23-Apr-92 : B : Harrowed.  
23-Apr-92 : T : **SPECIES** CUL OATS: Dula drilled.  
          : T : **SPECIES** CHICKWD: Broadcast by hand.  
23-Apr-92 : B : Rotary harrowed, Antares, dressed Prelude 20LF, drilled at 48 kg, harrowed.  
24-Apr-92 : B : Rolled.  
09-Jun-92 : T : **SPECIES** CUL OATS: Basagran at 2.0 l and Vindex at 1.0 l in 220 l.  
08-Sep-92 : T : Hand harvested (start).  
09-Sep-92 : T : Hand harvested (finish).

92/R/LN/2

Previous crops: W. wheat 1990, s. beans 1991.

**NOTE:** Weed counts were made and dry weight samples were taken at intervals during the growing season.

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

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

DENSITY SPECIES	D0	D1	D2	D3	D4	Mean
CUL OATS	1.62	1.34	0.98	0.65	0.47	1.01
CHICKWD	1.63	1.27	1.39	1.43	1.43	1.43
Mean	1.63	1.31	1.18	1.04	0.95	1.22

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

SPECIES	DENSITY	SPECIES
		DENSITY
	0.065	0.144
	0.102	

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	18	0.177	14.5

GRAIN MEAN DM% \*

PLOT AREA HARVESTED 0.00020