

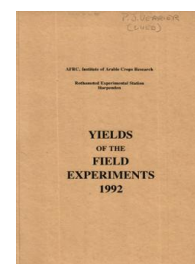
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# Yields of the Field Experiments 1992

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## Linseed

### Rothamsted Research

Rothamsted Research (1993) *Linseed* ; Yields Of The Field Experiments 1992, pp 155 - 158 - **DOI:** <https://doi.org/10.23637/ERADOC-1-47>

92/R/LN/1

**LINSEED**

**VARIETIES AND DISEASE**

**Object:** To investigate the effects of pathogens on varieties of linseed - White Horse II.

**Sponsors:** B.D.L. Fitt, J. Harold.

**Design:** 4 randomised blocks of 10 plots.

**Whole plot dimensions:** 3.0 x 15.0.

**Treatments:** All combinations of:-

1. **VARIETY** Varieties:

ANTARES  
BARBARA  
MCGREGOR  
NORLIN  
CD 1747

2. **FUNGICIDE** Fungicides:

NONE None  
APPLIED Prochloraz seed dressing, iprodione during flowering,  
prochloraz and carbendazim plus maneb post-flowering

**Experimental diary:**

16-Oct-91 : B : Straw burnt.  
28-Nov-91 : B : Farmyard manure at 10 t.  
04-Dec-91 : B : Ploughed.  
18-Mar-92 : B : PK as (0:18:36) at 940 kg.  
10-Apr-92 : B : 34.5% N at 220 kg.  
11-Apr-92 : B : Spring-tine cultivated.  
21-Apr-92 : T : **VARIETY:** All varieties drilled at 550 seeds per square metre.  
                  : T : **FUNGICIDE APPLIED:** Seed, dressed Prelude 20LF, drilled.  
22-Apr-92 : B : Rolled.  
02-Jun-92 : B : Basagran at 2.0 l and Vindex at 1.0 l in 200 l.  
24-Jun-92 : T : **FUNGICIDE APPLIED:** Rovral Flo at 2.0 l in 200 l.  
08-Jul-92 : T : **FUNGICIDE APPLIED:** Sportak 45 at 0.90 l in 200 l.  
23-Jul-92 : T : **FUNGICIDE APPLIED:** Delsene M Flowable at 5.0 l in 200 l.  
05-Sep-92 : B : Challenge at 3.0 l in 400 l.  
29-Sep-92 : B : Combine harvested.

Previous crops: W. wheat 1990, linseed 1991.

**NOTE:** Emergence counts were made in spring. Samples were taken fortnightly from June to September for disease assessment. Oil content of the grain was measured.

92/R/LN/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGCIDE	NONE	APPLIED	Mean
VARIETY			
ANTARES	2.41	2.55	2.48
BARBARA	1.74	2.12	1.93
MCGREGOR	2.31	2.42	2.36
NORLIN	2.01	2.30	2.16
CD 1747	2.15	2.32	2.23
Mean	2.12	2.34	2.23

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

VARIETY	FUNGCIDE	VARIETY
		FUNGCIDE
0.087	0.055	0.123

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	27	0.174	7.8

GRAIN MEAN DM% 88.7

PLOT AREA HARVESTED 0.00276

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. <b>SPECIES</b>	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. <b>DENSITY</b>	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	0.102	0.144

\*\*\*\*\* 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