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Yields of the Field Experiments 1992

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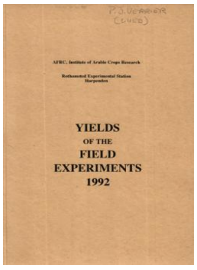

92/R/LN/2 Weed Competition and Linseed - Linseed

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**

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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 (Avena sativa) to simulate wild oats (A. fatua)

   CHICKWD Chickweed (Stellaria media)

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).

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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

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