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

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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 m²:

	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 m²:

W1	15
W2	54

NOTES: (1) Target 'weed' densities, seeds per m²:

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 m².

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 *****

RATE	0	1	2	3	4	Mean
SPECIES						
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
EXTRA						
W1	0.70					
W2	0.51					
Mean	0.58					

GRAND MEAN 0.74

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

SPECIES	RATE	SPECIES RATE & EXTRA
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		