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Yields of the Field Experiments 1995

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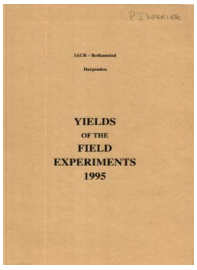

95/R/LN/2 Weed Competition in Linseed - Linseed

Rothamsted Research

Rothamsted Research (1996) *95/R/LN/2 Weed Competition in Linseed - Linseed ;* Yields Of The Field Experiments 1995, pp 158 - 160 **- DOI: https://doi.org/10.23637/ERADOC-1-50**

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95/R/LN/2

LINSEED

WEED COMPETITION IN LINSEED

Object: To study the effects of two weed species on each other and on the growth and yield of linseed - New Zealand.

Sponsors: R.C. Van Acker, P.J.W. Lutman.

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

Plot dimensions: 3.0 x 10.

Treatments: All combinations of:-

1. **BARLEY** Average number of barley plants established per m^2:

B0	0
B1	16
B2	33
B3	61
B4	181

2. **CHK WEED** Average number of chickweed plants established per m^2:

C0	0
C1	52
C2	103
C3	241
C4	395

plus 5 extra treatments

3. **EXTRA** Average number of barley or chickweed plants established per m^2:

	Barley	Chickweed
-	0	0
EB1	97	0
EB2	200	0
EC1	0	358
EC2	0	528

NOTE: Weed sowing rates and target densities were as follows:

Seeds per m^2		Plants per m^2	
B1	25	C1	100
B2	50	C2	200
B3	100	C3	400
B4	300	C4	800
EB1	200	EC1	600
EB2	400	EC2	1200

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95/R/LN/2

Experimental diary:

09-Dec-94 : B : Farmyard manure at 25 t.
21-Dec-94 : B : Ploughed.
14-Mar-95 : B : Gramoxone 100 at 4.0 l in 200 l.
20-Apr-95 : B : Spring-tine cultivated.
21-Apr-95 : **T** : **BARLEY** B1, B2, B3, B4, **EXTRA** EB1, EB2: Alexis, dressed Cerevax Extra, broadcast by machine.
: **T** : **CHKWEED** C1, C2, C3, C4, **EXTRA** EC1, EC2: Chickweed seeds broadcast by hand.
: B : Rotary harrowed, Antares, dressed Prelude 20LF, drilled at 700 seeds per m^2.
03-May-95 : B : Irrigated 25 mm.
05-May-95 : B : Decis at 300 ml in 300 l.
16-May-95 : B : Irrigated 5 mm.
24-May-95 : B : 34.5% N at 232 kg.
15-Aug-95 : B : Standon Diquat at 3.0 l with Vassgro Spreader at 400 ml in 400 l.
16-Aug-95 : B : Hand harvested.

NOTE: Leaf area indices of barley, chickweed and linseed were measured on two occasions during the growing season. Percentage ground cover was assessed by visual and photographic methods on two occasions early in the growing season. Weed seed yield, and crop components of yield, were measured before harvest.

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95/R/LN/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

CHK WEED BARLEY	C0	C1	C2	C3	C4	Mean
B0	1.31	1.22	1.19	0.93	0.45	1.02
B1	1.05	0.90	0.75	0.57	0.39	0.73
B2	0.73	0.68	0.81	0.54	0.47	0.65
B3	0.54	0.59	0.49	0.39	0.28	0.46
B4	0.23	0.23	0.13	0.14	0.17	0.18
Mean	0.77	0.72	0.67	0.51	0.35	0.61

EXTRA	-	EB1	EB2	EC1	EC2	Mean
	1.41	0.15	0.16	0.45	0.42	0.52

Grand mean 0.59

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

BARLEY	CHK WEED	BARLEY CHK WEED & EXTRA
0.048	0.048	0.107

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	29	0.107	18.1

GRAIN MEAN DM% not measured

PLOT AREA HARVESTED 0.00010

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