

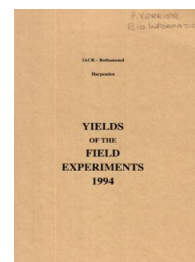
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94/R/LN/2 Weed Competition in Linseed - Linseed

Rothamsted Research

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94/R/LN/2

LINSEED

WEED COMPETITION IN LINSEED

Object: To investigate the effects of two weed species on each other and on the growth and yield of linseed - Geescroft.

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

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

Whole plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

1. **BARLEY** Number of barley plants established per m²:

B0	0
B1	16
B2	22
B3	59
B4	164

2. **CHKWEED** Number of chickweed plants established per m²:

C0	0
C1	73
C2	161
C3	345
C4	546

plus 5 extra treatments

3. **EXTRA** Number of barley or chickweed plants established per m²:

	Barley	Chickweed
-	-	-
EB1	80	-
EB2	237	-
EC1	-	430
EC2	-	712

NOTE: Target 'weed' densities, plants per m², were as follows:

BARLEY B0 0, B1 25, B2 50, B3 100, B4 300.

CHKWEED C0 0, C1 100, C2 200, C3 400, C4 800.

EXTRA - 0, EB1 200, EB2 400, EC1 600, EC2 1200.

Experimental diary:

03-Dec-93 : B : Ploughed.

25-Apr-94 : B : Rotary harrowed.

: T : **BARLEY** B1, B2, B3, B4, **EXTRA** EB1, EB2: Alexis, dressed Panocrine Plus, broadcast by machine.

94/R/LN/2

Experimental diary:

25-Apr-94 : 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 m².
 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.
 06-Sep-94 : B : Hand harvested.

Previous crops: W. wheat 1992, w. wheat 1993.

NOTE: Leaf area indices of the 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, as well as crop components of yield, were measured before harvest.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

BARLEY	B0	B1	B2	B3	B4	Mean
CHKWEED						
C0	0.84	0.76	0.76	0.60	0.32	0.66
C1	0.90	0.71	0.73	0.54	0.31	0.64
C2	0.80	0.61	0.60	0.61	0.32	0.59
C3	0.76	0.67	0.62	0.53	0.36	0.59
C4	0.75	0.63	0.61	0.35	0.26	0.52
Mean	0.81	0.68	0.66	0.53	0.31	0.60
EXTRA						
-	0.96					
EB1	0.49					
EB2	0.34					
EB3	0.77					
EB4	0.82					
Mean	0.68					

GRAND MEAN 0.61

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

BARLEY	CHKWEED	BARLEY CHKWEED
0.055	0.055	0.124

94/R/LP/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	29	0.124	20.2

GRAIN MEAN DM% *

PLOT AREA HARVESTED 0.00010