

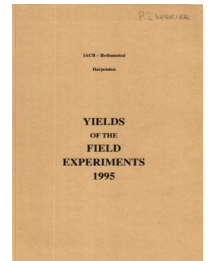
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95/R/LN/1 Weed Types in Linseed - Linseed

Rothamsted Research

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95/R/LN/1

LINSEED

WEED TYPES IN LINSEED

Object: To study the effects of three weed species on the growth and yield of linseed - Hoosfield Old 4-course.

Sponsor: P.J.W. Lutman.

Design: 3 blocks of 15 plots.

Plot dimensions: 3.0 x 10.0.

Treatments:

SPECDEN	Weed species and density (average number of established plants per m ²):
0	None (triplicated)
C1	Cultivated oats (<i>Avena sativa</i> cv. Dula), 10.7
C2	Cultivated oats, 30.7
C3	Cultivated oats, 86.1
C4	Cultivated oats, 174.0
K1	Knotgrass (<i>Polygonum aviculare</i>), 20.3
K2	Knotgrass, 47.2
K3	Knotgrass, 74.4
K4	Knotgrass, 145.0
F1	Fat hen (<i>Chenopodium album</i>), 0
F2	Fat hen, 0
F3	Fat hen, 0
F4	Fat hen, 23.3

- NOTES:** (1) Target weed sowing rates and densities were as follows:
Cultivated oats (seeds per m²): C1 20, C2 60, C3 180 and C4 360.
Knotgrass (plants per m²): K1 20, K2 80, K3 180 and K4 320.
Fat hen (plants per m²): F1 40, F2 80, F3 160 and F4 320.
- (2) Weeds on plots with treatments F1, F2, F3 failed to establish. These plots have been omitted from the analysis.

Experimental diary:

06-Sep-94 : B : PK as (0:20:32) at 1317 kg.
07-Sep-94 : B : Dolomite at 5.0 t.
16-Dec-94 : B : Ploughed.
19-Apr-95 : B : Heavy spring-tine cultivated. Rotary harrowed.
20-Apr-95 : T : **SPECDEN** C1, C2, C3, C4: Dula, dressed Rappor, drilled.
 : T : **SPECDEN** K1, K2, K3, K4: Knotgrass broadcast.
 : T : **SPECDEN** F1, F2, F3, F4: Fat hen broadcast.
 : B : Rotary harrowed, Antares, dressed Prelude 20 LF, drilled
 at 700 seeds per m².

95/R/LN/1

Experimental diary:

21-Apr-95 : B : Rolled.
 04-May-95 : B : Part irrigated, 25 mm.
 05-May-95 : B : Part irrigated, 25 mm.
 10-May-95 : B : Decis at 200 ml in 300 l.
 11-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.
 22-Aug-95 : B : Hand harvested.

Previous crops: W. oats 1993, w. wheat 1994.

NOTE: Crop and weed densities were assessed in May. Crop and weeds were sampled in June and August to measure dry matter.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SPECDEN

0	1.11
C1	0.91
C2	0.59
C3	0.29
C4	0.18
K1	0.89
K2	0.77
K3	0.61
K4	0.58
F4	0.98

Mean	0.76
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*** Standard errors of differences of means ***

SPECDEN

0.125	min.rep
0.102	max-min

SPECDEN

max-min	0 v any of the remainder
min.rep	Any of the remainder

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	24	0.154	20.1

GRAIN MEAN DM% not measured

PLOT AREA HARVESTED 0.00020