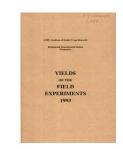
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Yields of the Field Experiments 1993



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Rothamsted Research

Rothamsted Research (1994) *93/R/LN/6 Weed Types in Linseed - Linseed ;* Yields Of The Field Experiments 1993, pp 165 - 166 - **DOI:** https://doi.org/10.23637/ERADOC-1-48

93/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 - Delafield.

Sponsors: P.J.W. Lutman.

Design: 3 blocks of (3 x 5) + 2 plots.

Whole plot dimensions: 3.0×10.0 .

Treatments: All combinations of:-

1. SPECIES Weed species:

CULT OAT Cultivated oats (Avena sativa)
FAT HEN Fat hen (Chenopodium album)
KNOT GR Knotgrass (Polygonum aviculare)

2. SOW DEN Density of established plants (plants per square metre):

	Cultivated oats	Fat hen	Knotgrass
D0	0	0	0
D1	6	2	2
D2	21	9	6
D3	36	18	11
D4	66	32	18

plus two extra plots

W1 10 W2 38

NOTES: (1) Target seed densities (seeds sown per square metre):

SPECIES	D0	D1	D2	D3	D4
Cultivated oats	0	12.5	50	100	200
Fat hen	0	100	400	800	1600
Knotgrass	0	120	480	960	1920

WILD OAT W1 W2 50 200

(2) Weed species were sown in the central 2.5 m of each plot.

93/R/LN/6

Experimental diary:

13-Nov-92 : B : Farmyard manure at 25 tonnes.

20-Jan-93 : B : Ploughed.

29-Apr-93 : B : Rotary harrowed.

: T : SPECIES CULT OAT, FAT HEN, KNOT GRASS: Seed broadcast by hand.

: T : WILD OAT W1, W2: Seed broadcast by hand.

: B : Rotary harrowed, Antares, dressed Prelude 20 LF, drilled at 700 seeds per square metre.

05-May-93 : B : Rolled.

12-May-93 : B : 34.5% N at 220 kg.

13-May-93 : B : Decis at 0.30 1 in 200 1.

06-Sep-93 : B : Stefes Diquat at 1.0 1 with Vassgro Spreader at 0.30 1 in 260 1.

12-Sep-93 : B : Harvested by hand.

Previous crops: W. wheat 1991, s. beans 1992.

NOTE: Emergence counts were made. Samples were taken for measurement of dry weight, height and boll numbers. Crop and weed plant numbers were counted throughout the season.

GRAIN TONNES/HECTARE

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

SOW DEN	D0	D1	D2	D3	D4	Mean
SPECIES						
CULT OAT	2.37	2.43	2.12	1.81	1.36	2.02
FAT HEN	2.41	2.09	2.13	1.93	1.77	2.07
KNOT GR	2.38	2.41	2.29	2.10	1.96	2.23
Mean	2.39	2.31	2.18	1.94	1.70	2.10
WILD OAT	W1	W2	Mean			
	2.32	2.06	2.19			

GRAND MEAN 2.11

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

SPECIES	SOW DEN	SPECIES
		SOW DEN
		&WILD OAT
0.090	0.116	0.201

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

 Stratum
 d.f.
 s.e.
 cv%

 BLOCK.WP
 32
 0.246
 11.6

GRAIN MEAN DM% 81.0 PLOT AREA HARVESTED 0.00010