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Yields of the Field Experiments 1994



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Rothamsted Research

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94/R/BES/4

SPRING BEANS

WEED COMPETITION AND SPRING BEANS

Object: To study the effect of time of emergence on the competition between beans and oats and to correlate assessments of competition and bean yields - Little Hoos.

Sponsor: P.J.W. Lutman.

Design: 3 randomised blocks of 2 x 5 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

1.	SOW DATE	Time of sowing oats:
	S2 S3	Same day as beans Ten days after sowing beans
2.	OAT DEN	Number of established oat plants per m^2 :
		S2 S3
	D0	0 0
	D1	23 17
	D2	60 53
	D3	127 84
	D4	192 165

NOTE: Target oat densities, plants per m^2 : D0 0, D1 40, D2 120, D3 240, D4 480.

Experimental diary:

```
04-Nov-93 : B : Deep tine cultivated twice.

21-Mar-94 : B : Scythe at 2.0 l in 200 l.

26-Mar-94 : B : Oxytril CM at 1.5 l with Starane 2 at 1.0 l in 200 l.

31-Mar-94 : B : Heavy spring-tine cultivated.

19-Apr-94 : B : Spring-tine cultivated.

20-Apr-94 : B : Rotary harrowed.

: T : SOW DATE S2: Oats broadcast by machine.

: B : Rotary harrowed, Alfred drilled at 60 seeds per m².

28-Apr-94 : T : SOW DATE S3: Oats broadcast by machine.

: B : Harrowed.

12-May-94 : B : Ripcord at 250 ml in 200 l.

02-Jun-94 : B : Basagran at 3.0 l in 200 l.

08-Jul-94 : B : Bombardier at 1.0 l with Rovral Flo at 1.5 l and

Pirimicarb 50 DG at 0.28 kg in 200 l.
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Previous crops: S. barley 1992, potatoes 1993.

15-Aug-94 : B : Hand harvested.

94/R/BES/4

NOTE: Dry weight, ground cover and leaf area of crop and weed were assessed throughout the summer with the main samples taken in June, July and August.

GRAIN TONNES/HECTARE

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

OAT DEN SOW DATE	D0	D1	D2	D3	D4	Mean
S2	2.42	1.83	1.41	1.03	0.42	1.42
S3	2.19	2.30	1.70	1.48	1.12	1.76
Mean	2.30	2.07	1.55	1.26	0.77	1.59

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

SOW DATE	OAT DEN	SOW DATE	
		OAT DEN	
0.150	0.238	0.336	

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

 Stratum
 d.f.
 s.e.
 cv%

 BLOCK.WP
 18
 0.411
 25.9

MEAN DM% *

PLOT AREA HARVESTED 0.00010