Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1998



Full Table of Content

98/R/BES/3 Mustard Competition in Beans - S. Beans

Rothamsted Research

Rothamsted Research (1999) 98/R/BES/3 Mustard Competition in Beans - S. Beans; Yields Of The Field Experiments 1998, pp 162 - 163 - DOI: https://doi.org/10.23637/ERADOC-1-52

98/R/BES/3

SPRING BEANS

MUSTARD COMPETITION IN BEANS

Object: To study the effects of time of weed (mustard) emergence on the growth and yield of spring beans - Long Hoos I/II.

Sponsor: P.J.W. Lutman.

Design: 3 randomised blocks of 4 x 2 + 2 plots.

Whole plot dimensions: 3.0×10.0 .

Treatments:

1.	DENSITY	Target population density, plants per $\mbox{m}^2\colon$		
	M1 M2 M3 M4	40 80 160 320		
2.	SOW TIME	Date of sowing mustard:		
	S1 S2	24-Mar-98 (with crop) 07-Apr-98 (80 degree days after crop)		
Extra plot				

None (duplicated)

Experimental diary:

EXTRA

```
28-Aug-97 : B : Ploughed and furrow pressed.
28-Jan-98 : B : Barclay Gallup at 1.5 l with Frigate at 0.5 l in 200 l.
13-Feb-98 : B : Parable at 1.5 l with Scythe LC at 0.5 l and Luxon
                   Non-Ionic Wetter at 0.1 1 in 200 1.
23-Mar-98 : B : Heavy spring-tine cultivated. Rotary harrowed.
24-Mar-98 : T : DENSITY M1, M2, M3, M4 SOW TIME S1: Mustard seed
                   broadcast.
          : B : Rotary harrowed, Alfred, undressed, drilled at 40 seeds
                   per m2.
07-Apr-98 : T : DENSITY M1, M2, M3, M4 SOW TIME S2: Mustard seed
                    broadcast.
08-Apr-98 : B : Draza at 5.5 kg.
14-Apr-98 : B : Doff Metaldehyde Slug Killer Mini Pellets at 15.0 kg.
22-Apr-98 : B : Cyperkill 10 at 250 ml in 200 1.
08-May-98 : B : Folio 575 SC at 2.0 l in 200 l. Fastac at 200 ml in
                    260 1.
14-May-98 : B : Cyperkill 10 at 250 ml in 200 1.
28-May-98 : B : Fastac at 200 ml in 200 1.
12-Jun-98 : B : Folio 575 SC at 2.0 1 in 200 1.
19-Jun-98 : B : Aphox at 280 g in 200 l.
```

98/R/BES/3

Experimental diary:

24-Jul-98 : B : Alto 240 EC at 330 ml with Bravo 500 at 1.5 l in 200 l.

14-Sep-98 : B : Combine harvested.

Previous crops: W. rape 1996, w. wheat 1997

NOTE: Emergence counts and cover assessments were made in April and May.

Plants were sampled monthly May to September for dry weight and leaf

area.

GRAIN TONNES/HECTARE

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

SOW TIME	S1	S2	Mean
DENSITY			
M1	5.70	6.13	5.92
M2	5.55	5.64	5.59
M3	4.88	5.74	5.31
M4	4.34	5.47	4.91
Mean	5.12	5.75	5.43
EXTRA	6.71		

Grand mean 5.69

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

DENSITY	SOW TIME	DENSITY	
		SOW TIME	
0.327	0.231	0.463	

SED for comparing EXTRA with any item in DENSITY.SOW TIME table is 0.401

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

Stratum d.f. s.e. cv%

BLOCK.WP 19 0.567 10.0

GRAIN MEAN DM% *

PLOT AREA HARVESTED 0.00020