

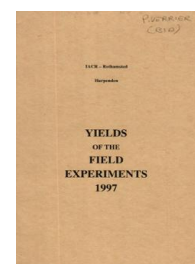
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97/R/BES/3 Mustard Competition in Beans - Spring Beans

Rothamsted Research

Rothamsted Research (1998) *97/R/BES/3 Mustard Competition in Beans - Spring Beans* ; Yields Of The Field Experiments 1997, pp 138 - 140 - DOI: <https://doi.org/10.23637/ERADOC-1-53>

97/R/BES/3

SPRING BEANS

MUSTARD COMPETITION IN BEANS

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

Sponsor: P.J.W. Lutman.

Design: 3 randomised blocks of 6 x 2 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

TREATMNT Weed density and time of sowing weeds:

M0	None (duplicated)
SE M1	Sown with crop, mustard density 1
SE M2	Sown with crop, mustard density 2
SE M3	Sown with crop, mustard density 3
SE M4	Sown with crop, mustard density 4
SL M1	Sown 10 days after crop, mustard density 1
SL M2	Sown 10 days after crop, mustard density 2
SL M3	Sown 10 days after crop, mustard density 3
SL M4	Sown 10 days after crop, mustard density 4
SE O	Oats sown with crop
SL O	Oats sown 10 days after crop

Plant densities:-

Average mustard plants per m²:

SE M1	0
M2	0
M3	24
M4	20
SL M1	31
M2	36
M3	57
M4	152

Average oat plants per m²:

SE O	90
SL O	48

NOTE: Plants in treatment SE M1 and SE M2 failed.

Experimental diary:

11-Dec-96 : B : Ploughed.
24-Mar-97 : T : **TREATMNT** SE; M1, M2, M3, M4: Mustard broadcast.
 : T : **TREATMNT** SE 0: Oats broadcast.
 : B : Heavy spring-tine cultivated, rotary harrowed twice,
 Alfred, undressed, drilled at 50 seeds per m².
06-Apr-97 : B : Irrigated 25 mm.

97/R/BES/3

GRAIN TONNES/HECTARE

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

TREATMNT	
M0	4.16
SE M3	2.77
SE M4	2.85
SL M1	2.99
SL M2	2.71
SL M3	2.44
SL M4	1.83
SE O	2.45
SL O	3.57
Mean	2.99

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

TREATMNT	
0.444	min.rep
0.385	max-min

TREATMNT	
max-min	M0 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	19	0.544	18.2
GRAIN MEAN DM% 86.4			
PLOT AREA HARVESTED 0.00020			