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99/R/BES/2 Weeds and Water in Spring Beans - S. Beans

Rothamsted Research

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99/R/SU/1

GRAIN TONNES/HECTARE

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

SEEDRATE VARIETY	S1	S2	S3	Mean
A	1.81	1.48	1.64	1.65
S	2.27	2.32	2.72	2.44
Mean	2.04	1.90	2.18	2.04

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

VARIETY	SEEDRATE	VARIETY SEEDRATE
0.105	0.128	0.182

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	5	0.182	8.9

GRAIN MEAN DM% 81.7

PLOT AREA HARVESTED 0.00500

99/R/BES/2

SPRING BEANS

WEEDS AND WATER IN SPRING BEANS

Object: To test the effects of moisture level and relative time of emergence on the competitive effects of weeds in beans - Pastures.

Sponsor: P.J.W. Lutman.

Design: 3 replicates of 2 plots split into 7 sub-plots.

Whole plot dimensions: 24.0 x 10.0.

Sub-plot dimensions: 3.0 x 10.0.

Treatments:

Whole plots

1. IRRIGATN Irrigation:

U	None
I	Irrigated

Sub-plots

2. WEEDS

-	None
M1	Mustard, low density
M2	Mustard, high density
O1	Oats, low density
O2	Oats, high density
M1L	Mustard, low density - sown late 07-Apr-99
M2L	Mustard, high density - sown late 07-Apr-99

Experimental diary:

17-Nov-98	:	:	: Alpha Glyphogan at 2.0 l in 200 l.
02-Dec-98	:	:	: Ploughed, started.
03-Dec-98	:	:	: Ploughed, completed.
16-Mar-99	:	B :	: Muriate of potash at 600 kg.
17-Mar-99	:	B :	: Triple superphosphate at 150 kg.
25-Mar-99	:	B :	: Rotary harrowed.
	:	B :	: Combination drilled, Alfred, homesaved, at 40 seeds/m ² with the Fiona drill.
	:	T : M1,M2	: Mustard broadcast at 40 or 160 seeds/m ² respectively.
	:	T : O1,O2	: Oats broadcast at 40 or 160 seeds/m ² respectively.
26-Mar-99	:	B :	: Cambridge rolled.
07-Apr-99	:	T : M1L,M2L	: Mustard broadcast at 40 or 160 seeds/m ² respectively.
16-Apr-99	:	B :	: Hallmark at 150 ml in 200 l.
30-Apr-99	:	T : O1,O2	: Basagran SG at 1.1 kg in 220 l.
05-May-99	:	B :	: Resistim at 2.5 l in 200 l.
15-May-99	:	B :	: Folio 575 SC at 2.0 l in 200 l.
19-May-99	:	B :	: Hallmark at 150 ml in 200 l.
22-Jun-99	:	B :	: tm)Bavistin DF at 1.0 kg in 200 l.