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Yields of the Field Experiments 1987

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87/R/BE/4 Varieties, Row Spacing and Plant Health - S. Beans

Rothamsted Research

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87/R/BE/4

SPRING BEANS

VARIETIES, ROW SPACING AND PLANT HEALTH

Object: To compare four varieties of spring-sown field beans at two row spacings and two amounts of pest and disease control - Pastures.

Sponsors: J. McEwen, D.P. Yeoman.

Design: 3 randomised blocks of 16 plots.

Whole plot dimensions: 6.0 x 10.0.

Treatments: All combinations of:-

1. VARIETY — Varieties sown at 60 seeds per square metre:

   ALFRED
   MINDEN
   TICOL
   TROY

2. ROW SPAC — Spacing between rows (cm):

   12
   48

3. PATHCONT — Pest and pathogen control:

   STANDARD — None
   ENHANCED — Deltamethrin at 0.0079 kg in 500 l on 22 Apr, 1987, and in 200 l on 27 May
   Chlorothalonil at 1.0 kg with benomyl at 0.50 kg and a wetting agent ('Agral' at 0.06 l) in 200 l on 18 June
   Maneb at 0.80 kg and mancozeb at 0.80 kg in 200 l on 9 July

Basal applications: Weedkillers: Trietazine at 1.2 kg and simazine at 0.17 kg in 500 l.

Cultivations, etc.:- Ploughed: 27 Oct, 1986. Spring-tine cultivated, rotary harrowed, seed sown: 17 Mar, 1987. Weedkillers applied: 30 Mar. Combine harvested: 21 Sept. Previous crops: W. wheat 1985 and 1986.

NOTE: Establishment counts were made. Disease assessments were made in July and August. At maturity, plant heights, lodging and components of yield were assessed.

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87/R/BE/4

GRAIN TONNES/HECTARE

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

ROWSPACE	12	48	Mean
VARIETY			
ALFRED	4.88	4.87	4.88
MINDEN	4.47	4.36	4.42
TICOL	3.79	3.68	3.73
TROY	3.95	3.71	3.83
Mean	4.28	4.16	4.22

PATHCONT	STANDARD	ENHANCED	Mean
VARIETY			
ALFRED	3.82	5.94	4.88
MINDEN	3.88	4.95	4.42
TICOL	2.90	4.57	3.73
TROY	3.47	4.20	3.83
Mean	3.52	4.91	4.22

PATHCONT	STANDARD	ENHANCED	Mean
ROWSPACE			
12	3.53	5.03	4.28
48	3.51	4.80	4.16
Mean	3.52	4.91	4.22

ROWSPACE	12		48	
VARIETY PATHCONT	STANDARD	ENHANCED	STANDARD	ENHANCED
ALFRED	3.86	5.91	3.78	5.96
MINDEN	3.98	4.96	3.78	4.93
TICOL	2.87	4.72	2.94	4.42
TROY	3.39	4.51	3.54	3.88

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

Table	VARIETY	ROWSPACE	PATHCONT	VARIETY ROWSPACE
s.e.d.	0.123	0.087	0.087	0.174

Table	VARIETY PATHCONT	ROWSPACE PATHCONT	VARIETY ROWSPACE PATHCONT
s.e.d.	0.174	0.123	0.246

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	30	0.302	7.2

GRAIN MEAN DM% 76.4

PLOT AREA HARVESTED 0.00315

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