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Yields of the Field Experiments 1986



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86/R/BE/6 Varieties, Row Spacing and Plant Health - S. Beans

Rothamsted Research

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86/R/BE/6

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 - Stackyard.

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

Design: 3 randomised blocks of 16 plots.

Whole plot dimensions: 6.0×10.0 .

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 Pirimicarb at 0.14 kg in 200 l on 16 July, 1986
ENHANCED Deltamethrin at 0.0079 kg in 500 l on 3 June and
23 June
Pirimicarb at 0.14 kg in 500 l on 9 July and in 200 l
on 16 July
Benomyl at 0.50 kg in 500 l on 18 July
Maneb at 0.80 kg and mancozeb at 0.80 kg in 500 l on
1 Aug

Triadimefon at 0.50 kg in 500 l on 19 Aug

Basal applications: Weedkillers: Trietazine at 1.2 kg and simazine at 0.17 kg in 200 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Agral' at 0.075 l) in 500 l.

Cultivations, etc.:- Ploughed: 20 Nov, 1985. Rotary harrowed, seed sown: 28 Apr, 1986. Weedkillers applied: 2 May. Desiccant with wetter applied: 17 Sept. Combine harvested: 23 Sept. Previous crops: W. wheat 1984 and 1985.

NOTES: (1) Establishment counts were made. Disease assessments were made in September. At maturity plant heights, lodging and components of yield were assessed.

(2) Because of seed shortage five plots were not sown, those with treatment combinations TICOL ALFRED TICOL VARIETY TICOL TICOL ROW SPAC 48 48 48 12 12 PATHCONT ENHANCED STANDARD ENHANCED ENHANCED STANDARD Estimated values were used in the analysis.

86/R/BE/6

GRAIN TONNES/HECTARE

**** TABLES OF MEANS ****

ROW SPAC VARIETY	12	48	3 ME	AN	
ALFRED	5.15	4.83	4.	QQ	
MINDEN	4.95				
TICOL	4.54				
TROY	4.80				
	1.00	4.01		40	
MEAN	4.86	4.41	4.	64	
PATHCONT	STANDARD	ENHANCED	ME.	AN	
VARIETY	4 74				
ALFRED					
MINDEN	4.71				
TICOL					
TROY	4.13	4.68	4.	40	
MEAN	4.45	4.83	4.	64	
PATHCONT ROW SPAC	STANDARD	ENHANCED	ME	AN	
12	4.73	4.99	4.8	26	
48	4.16	4.67		747.23	
10	1.10	4.07	7.	*1	
MEAN	4.45	4.83	4.6	54	
ROW SPAC	12		48		
		ENHANCED		ENHANCED	
VARIETY	o minorino	LIMITOLD	3 mil Dring	LITTATIOED	
ALFRED	4.92	5.38	4.55	5.11	
MINDEN					
TICOL	4.54				
TROY	4.66			4.41	
INOI	1.00	7.33	3.00	4.41	

86/R/BE/6

**** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	VARIETY	ROW SPAC	PATHCONT	VARIETY ROW SPAC
SED	0.100	0.070	0.070	0.141
TABLE	VARIETY PATHCONT	ROW SPAC PATHCONT	VARIETY ROW SPAC PATHCONT	;
SED	0.141	0.100	0.199	. <u>-</u>)
**** STRATUM ST	ANDARD ERRORS	S AND COEFF	ICIENTS OF	VARIATION ****
STRATUM	Di	F	SE	CV%
BLOCK . WP	2	5 0	.244	5.3
GRAIN MEAN DM%	80.6			

PLOT AREA HARVESTED ROW SPAC 12 0.00300 ROW SPAC 48 0.00288