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Yields of the Field Experiments 1988



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

Rothamsted Research

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88/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 - Long Hoos I/II.

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:-

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 Economic enhanced to include:

Deltamethrin at 0.0079 kg in 200 l on 26 Apr, 1988

and 17 May.

Pirimicarb at 0.14 kg in 200 1 on 20 May.

Benomyl at 0.50 kg with chlorothalonil at 1.0 kg and a wetting agent ('Enhance' at 0.03 1) in

200 1 on 20 June.

Maneb at 0.80 kg and mancozeb at 0.80 kg in 200 l on 29 June.

Basal applications: Weedkillers: Trietazine at 1.2 kg and simazine at 0.17 kg in 200 l.

Cultivations, etc.:- Ploughed: 1 Dec, 1987. Heavy spring-tine
 cultivated twice: 7 Mar, 1988. Rotary harrowed, seed sown: 9 Mar.
 Weedkillers applied: 17 Mar. Combine harvested: 20 Sept. Previous
 crops: W. wheat 1986 and 1987.

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

88/R/BE/4

GRAIN TONNES/HECTARE

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

ROW S			12		48	Mean			
2000	RED		6.17		5.99	6.08			
	The state of the s		4		5.56				
	COL		4.54		4.68	4.61			
	ROY		4.86		5.28	5.07			
М	lean		5.35		5.38	5.36	i		
PATHO	CONT	STAN	DARD	ENH	IANCED	Mean	1		
VARI	ETY								
ALE	RED		4.90		7.26	6.08	3		
MINDEN			5.30		6.10	5.70)		
TICOL			3.97		5.25	4.61			
7	TROY		4.33		5.81	5.07	1		
4	Mean		4.62		6.10	5.36	5		
PATHO	CONT	STAN	IDARD	ENH	HANCED	Mear	1		
ROW S	SPAC								
	12		4.70		6.00	5.35	5		
	48		4.54		6.21	5.38	3		
1	Mean		4.62		6.10	5.36	5		
	ROW	SPAC		12			48		
VARIETY	PATI	HCONT	STAND	ARD	ENHANCE	D STANDA	ARD	ENHA	NCED
ALFRED			5	.16	7.1				
MINDEN			5	.45	6.2	2 5.	.14		5.98
TICOL			3	.88	5.2	1 4.	.07		5.28
TROY			4	.33	5.3	9 4	. 33		6.22

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

VARIETY	ROW SPAC	PATHCONT	VARIETY ROW SPAC
0.171	0.121	0.121	0.242
VARIETY	ROW SPAC	VARIETY	
PATHCONT	PATHCONT	ROW SPAC PATHCONT	
0.242	0.171	0.342	

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

 Stratum
 d.f.
 s.e.
 cv%

 BLOCK.WP
 30
 0.419
 7.8

GRAIN MEAN DM% 84.3

PLOT AREA HARVESTED ROW SPAC 12 0.00330 ROW SPAC 48 0.00312

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