

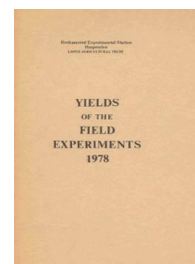
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78/R/BE/13 Comparison of Fungicides - Beans

Rothamsted Research

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78/R/BE/13

SPRING BEANS

COMPARISON OF FUNGICIDES

Object: To study the effects of a range of fungicides and methods of application on the incidence of diseases and on yield - Fosters O & E IV.

Sponsors: G.A. Salt, J. McEwen, D. Yeoman.

Design: 3 randomised blocks of 12 plots.

Whole plot dimensions: 2.03 x 2.13.

Treatments: All combinations of:-

1. FUNGICIDE	Fungicide:
AL TRI	Aluminium tris (ethylphosphonate). 'Aliette'
BEN	Benomyl
DL ME	DL-methyl N-(2,6 dimethylphenyl)-N-(2 methoxyacetyl) alaninate. 'Ridomil'
THIABEND	Thiabendazole

2. METHOD	Method of application:
FOLIAR	Foliar spray
SEEDRESS	Seed dressing (using a methyl cellulose sticker)

plus four extra treatments:

EXTRA

NONE	No fungicides
NONE S	No fungicides, seed treated with methyl cellulose sticker
BEN SB	Benomyl worked in to seedbed
DL ME SB	'Ridomil' worked in to seedbed

NOTES: (1) Rates of application were as follows (foliar sprays were applied in 1250 l):

	Seedbed kg	Seed dressing g/kg seed	Foliar spray kg
AL TRI	-	4.0	3.38
BEN	20.0	8.8	0.50
DL ME	1.5	0.4	0.34
THIABEND	-	11.3	0.50

(2) Seed was sown by hand in rows 51 cm apart, seed spaced 5 cm apart in the row.

78/R/BE/13

Basal applications: Weedkillers: Simazine at 0.84 kg in 340 l. Insecticides: Permethrin at 0.15 kg in 340 l. Pirimicarb at 0.14 kg in 340 l.

Seed: Minden.

Cultivations, etc.:— Ploughed: 11 Oct, 1977. Spring-tine cultivated, seedbed treatments applied: 15 Mar, 1978. Rotary cultivated, seed sown: 31 Mar. Simazine applied: 24 Apr. Weedkiller applied: 10 May. Permethrin applied: 17 May. Pirimicarb applied: 5 July. Foliar spray treatments applied: 18 July. Harvested by hand: 11 Oct. Previous crops: Fallow 1976, spring oats 1977.

NOTE: Observations were made on root and foliar diseases during the season.

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

METHOD	FOLIAR	SEEDRESS	MEAN		
FUNGCIDE					
AL TRI	5.66	5.80	5.73		
BEN	5.70	6.00	5.85		
DL ME	5.81	5.62	5.71		
THIABEND	5.54	4.59	5.07		
MEAN	5.68	5.50	5.59		
EXTRA	NONE	NONE S	BEN SB	DL ME SB	MEAN
	5.67	5.79	5.39	5.43	5.57

GRAND MEAN 5.58

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

TABLE	EXTRA	FUNGCIDE	METHOD	FUNGCIDE METHOD & EXTRA
SED	0.441	0.312	0.220	0.441

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	22	0.540	9.7

GRAIN MEAN DM% 80.7

PLOT AREA HARVESTED 0.00015