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80/R/BE/9 Spring Beans Fungicides

Rothamsted Research

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80/R/BE/9

SPRING BEANS

FUNGICIDES

Object: To study the effects of fungicides and methods of application on the incidence of diseases and on the yield of s. beans - Long Hoos III 7.

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

Design: 2 randomised blocks of 20 plots.

Whole plot dimensions: 2.03 x 2.13.

Treatments: All combinations of:-

1. AL METH Methods of applying aluminium tris (ethyl phosphonate) ('Aliette')(all rates are of a.i.):

NONE	Not applied
SEEDRESS	Seed dressing at 4.0 g per kg seed
SPRAY E	Early foliar spray at 3.4 kg
SPRAY L	Late foliar spray at 3.4 kg

2. BEN METH Methods of applying benomyl:

NONE	Not applied
SEEDRESS	Seed dressing at 6.0 g per kg seed
SPRAY E	Early foliar spray at 1.0 kg
SPRAY L	Late foliar spray at 1.0 kg

plus four extra treatments:

EXTRA

NONE	No fungicides
STICKER	Methyl cellulose sticker as used for all seed dressing treatments
BE TH SD	Benomyl + thiram seed dressing (duplicated) at 2.0 g of each material per kg seed

NOTE: (1) Seed was sown by hand in rows 51 cm apart, seed spaced 5 cm apart in the row.

(2) Early foliar sprays were applied on 28 May in 700 l and late sprays on 22 July in 1200 l water.

Basal applications: Weedkillers: Trietazine and simazine (as 'Remtal SC' at 3.0 l) 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: 14 Nov, 1979. Spring-tine cultivated: 7 Apr, 1980. Power harrowed, seed sown: 8 Apr. Weedkillers applied: 15 Apr. Permethrin applied: 23 May. Pirimicarb applied: 11 July. Hand harvested: 7 Oct. Previous crops: Potatoes 1978, w. wheat 1979.

80/R/BE/9

NOTE: Emergence counts were made in early June, and root diseases were assessed in late July.

GRAIN TONNES/HECTARE

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

BEN METH AL METH NONE SEEDRESS SPRAY E SPRAY L	NONE	SEEDRESS	SPRAY E	SPRAY L	MEAN
NONE	4.17	4.65	4.07	5.41	4.58
SEEDRESS	4.67	5.06	4.91	4.98	4.90
SPRAY E	4.75	4.97	4.43	5.04	4.80
SPRAY L	3.61	5.14	5.15	4.85	4.68
MEAN	4.30	4.95	4.64	5.07	4.74
EXTRA	NONE	STICKER	BE TH SD	MEAN	
	4.15	5.02	5.11	4.85	

GRAND MEAN 4.76

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

TABLE	EXTRA	AL METH	BEN METH	AL METH BEN METH & EXTRA	
SED	0.509 0.402	0.255	0.255	0.509 0.402	MIN REP MAX-MIN

EXTRA
MAX-MIN BE TH SD V ANY OF THE REMAINDER
MIN REP ANY OF THE REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	20	0.509	10.7

GRAIN MEAN DM% 87.3

PLOT AREA HARVESTED 0.00015