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Yields of the Field Experiments 1982

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Rothamsted Research

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82/R/BE/6

WINTER BEANS

DISEASE CONTROL

Object: To study the effects of four fungicides on the control of diseases and on the yield of w. beans - Long Hoos VI/VII 5.

Sponsors: A. Bainbridge, G.R. Cayley, D.H. Lapwood.

Design: 3 randomised blocks of 7 plots.

Whole plot dimensions: 2.25 x 2.00.

Treatments:

FUNGCIDE	Fungicides and methods of application:
NONE	None
BENOM SD	Benomyl seed dressing
THIR SD	Thiram seed dressing
BE+TH SD	Benomyl + thiram seed dressing
PROCH SD	Prochloraz seed dressing
PROPI FS	Propiconazole foliar spray at 125 g in 300 l
BENOD FS	Benodanil foliar spray at 1.1 kg in 300 l

NOTES (1) Seed dressings were applied at 0.8 g per kg seed plus methyl cellulose sticker at 1.5 ml per kg seed.
(2) Foliar sprays were applied on 22 July, 1982 and 27 July.
(3) Seed was sown by hand in rows 25 cm apart, seed spaced 15 cm apart in the row.

Basal applications: Weedkillers: Paraquat at 0.84 kg ion in 340 l. Trietazine at 1.1 kg with simazine at 0.16 kg in 340 l. Insecticide: Permethrin at 62 g in 340 l on two occasions.

Seed: Throws MS, sown at 130 kg.

Cultivations, etc.:- Spring-tine cultivated: 3 Nov, 1981. Sown by hand: 5 Nov. Trietazine and simazine applied: 9 Nov. Paraquat applied: 9 Nov. Permethrin applied: 11 May, 1982 and 26 May. Harvested by hand: 7 Sept.

Previous crops: Potatoes 1980, fallow 1981.

NOTES: (1) Seedling emergence counts were made and foliar diseases were assessed.
(2) Yields of two plots were lost because they had been badly waterlogged. Both plots had treatment PROCH SD. Estimated values were used in the analysis.

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82/R/BE/6

GRAIN TONNES/HECTARE

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

FUNGCIDE	NONE	BENOM SD	THIR SD	BE+TH SD	PROCH SD	PROPI FS	BENOD FS	MEAN
	5.95	5.55	6.39	6.17	5.48	5.49	5.67	5.81

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

TABLE	FUNGCIDE
SED	0.424

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.520	8.9

GRAIN MEAN DM% 80.3

PLOT AREA HARVESTED 0.00045

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