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# Yields of the Field Experiments 1981

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## 81/R/BE/2 Fungicides - W. Beans

### Rothamsted Research

Rothamsted Research (1982) *81/R/BE/2 Fungicides - W. Beans* ; Yields Of The Field Experiments 1981, pp 298 - 299 - DOI: <https://doi.org/10.23637/ERADOC-1-35>

81/R/BE/2

WINTER BEANS

FUNGICIDES

Object: To study the effects of two times of applying three fungicides on the incidence of Chocolate Spot (*Botrytis* spp.) and on the yield of w. beans - Road Piece.

Sponsors: A. Bainbridge, G.R. Cayley.

Design: 3 randomised blocks of 12 plots.

Whole plot dimensions: 4.27 x 7.62.

Treatments: All combinations of:-

1. FUNGCIDE Fungicides (applied at 0.50 kg on each occasion):

BENOMYL	Benomyl
IPRODION	Iprodione
PROCHLOR	Prochloraz

2. APP TIME Times of applying fungicides:

NONE	None
E	22 May, 1981
L	9 July
E+L	22 May and 9 July

NOTE: Sprays were applied in 340 l.

Basal applications: Manures: Chalk at 7.5 t. Weedkillers: Simazine at 1.2 kg in 250 l. Fungicides: Benomyl at 0.55 kg in 250 l. Insecticide: Pirimicarb at 0.14 kg in 250 l.

Seed: Throws MS, sown at 250 kg.

Cultivations, etc.: - Rotary harrowed, heavy spring-tine cultivated: 19 Sept, 1980. Chalk applied: 20 Sept. Heavy spring-tine cultivated: 23 Sept. Seed sown: 24 Sept. Weedkiller applied: 25 Sept. Basal benomyl applied: 27 Mar, 1981. Insecticide applied: 12 June. Combine harvested: 1 Sept. Previous crops: Long ley until 1979, fallow 1980.

NOTE: Seedling emergence and percentage leaf area affected by *Botrytis* spp. were estimated. Stem counts, numbers of pods per stem, and 1000 grain weights were measured. Spore trapping took place throughout the season.

81/R/BE/2

GRAIN TONNES/HECTARE

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

APP TIME FUNGCIDE	E	L	E+L	MEAN
BENOMYL	3.25	3.04	3.49	3.26
IPRODION	3.24	3.16	3.33	3.25
PROCHLOR	3.20	2.91	3.08	3.07
MEAN	3.23	3.04	3.30	3.19

NONE 3.11

GRAND MEAN 3.17

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

TABLE	FUNGCIDE	APP TIME	FUNGCIDE APP TIME
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SED	0.146	0.146	0.252

SED FOR COMPARING NONE WITH ANY ITEM IN  
APP TIME.FUNGCIDE TABLE IS 0.206

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

STRATUM	DF	SE	CV%
BLOCK.WP	23	0.309	9.7

GRAIN MEAN DM% 80.5

PLOT AREA HARVESTED 0.00203