

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1981

[Full Table of Content](#)



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. FUNGICIDE 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 FUNGIDE	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	FUNGIDE	APP TIME	FUNGIDE APP TIME
SED	0.146	0.146	0.252

SED FOR COMPARING NONE WITH ANY ITEM IN
APP TIME.FUNGIDE 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