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# Yields of the Field Experiments 1983

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## 83/R/BE/5 Seed Dressings - W. Beans

### Rothamsted Research

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83/R/BE/5

WINTER BEANS

SEED DRESSINGS

Object: To study the effects of benomyl and thiram seed dressings on establishment, disease control and yield of w. beans - Stackyard.

Sponsors: A. Bainbridge, D.C. Griffiths, J. McEwen, D.P. Yeoman.

Design: 4 randomised blocks of 4 plots.

Whole plot dimensions: 5.33 x 9.14.

Treatments: All combinations of:-

1. SEEDRESS(1) Seed dressing:

NONE	None
BENOMYL	Benomyl at 0.8 g per kg seed

2. SEEDRESS(2) Seed dressing:

NONE	None
THIRAM	Thiram (as 'Thiram 80' at 1.0 g per kg seed)

Basal applications: Weedkiller: Simazine at 1.2 l in 250 l. Fungicide: Benomyl at 0.56 kg in 250 l on two occasions, with pirimicarb on the second. Insecticides: Permethrin at 0.15 kg in 340 l on two occasions. Pirimicarb at 0.14 kg.

Seed: Throws MS, sown at 230 kg.

Cultivations, etc.: - Ploughed: 26 Aug, 1982. Rotary harrowed, seed not dressed with benomyl sown: 23 Sept. Remaining seed sown: 24 Sept. Weedkiller applied: 16 Oct. Permethrin applied: 4 May, 20 May, 1983. Benomyl applied: 26 May. Benomyl with pirimicarb applied: 23 June. Combine harvested: 12 Aug. Previous crops: W. wheat 1981 and 1982.

NOTE: Emergence counts were made in December, 1982. Disease assessments were made on three occasions during the season. Spores were sampled from May.

83/R/BE/5

GRAIN TONNES/HECTARE

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

SEEDRESS(2)	NONE	THIRAM	MEAN
SEEDRESS(1)			
NONE	4.29	4.19	4.24
BENOMYL	4.37	4.45	4.41
MEAN	4.33	4.32	4.32

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

TABLE	SEEDRESS(1)	SEEDRESS(2)	SEEDRESS(1) SEEDRESS(2)
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SED	0.064	0.064	0.090

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

STRATUM	DF	SE	CV%
BLOCK.WP	9	0.128	3.0

GRAIN MEAN DM% 86.4

PLOT AREA HARVESTED 0.00293