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# Yields of the Field Experiments 1983



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# 83/R/CS/261 Benomyl and Take-all - W. Wheat

## **Rothamsted Research**

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## 83/R/CS/261

#### BENOMYL AND TAKE-ALL

Object: To study the effects of benomyl, applied to the soil with and without a surfactant, and of nuarimol on take-all (Gaeumannomyces graminis) and on the yield of w. wheat - New Zealand.

Sponsor: G.L. Bateman.

The third year, w. wheat.

For previous years see 81-82/R/CS/261.

Design: 4 randomised blocks of 7 plots.

Whole plot dimensions: 2.13 x 12.2.

#### Treatments:

FUNGCIDE Residues of fungicides and surfactant applied for wheat in 1981 and fresh applications for wheat in 1983:

NONE	None
(BEN A)	Benomyl at 20 kg in autumn 1980
(BEN S)	Benomyl at 20 kg in spring 1981
(NUA A)	Nuarimol at 2.2 kg in autumn 1980
BEN A	Benomyl at 20 kg in autumn 1982
BEN SF A	Benomyl at 20 kg plus a surfactant (an alcohol
	ethoxylate at 44 1) in autumn 1982
SF A	Surfactant alone in autumn 1982

NOTES: (1) Treatments applied in autumn 1982 were randomly allocated to plots given benomyl, nuarimol or surfactant in spring 1981.
(2) All fresh treatments were applied in 8,800 l on 31 Oct, 1982.

Basal applications: Manures: (0:18:36) at 250 kg. 'Nitro-Chalk' at 630 kg. Weedkillers: Isoproturon at 2.0 kg with mecoprop at 3.2 kg in 250 l. Fungicide: Propiconazole at 0.12 kg in 250 l. Growth regulator: Chlormequat at 1.1 kg in 250 l.

Seed: Avalon, seed not treated, sown at 180 kg.

Cultivations, etc.:- PK applied: 10 Sept, 1982. Ploughed: 21 Sept. Spring-tine cultivated, rotary harrowed, seed sown: 15 Oct. N applied: 15 Apr, 1983. Weedkillers applied: 16 Apr. Growth regulator applied: 29 Apr. Fungicide applied: 17 June. Combine harvested: 10 Aug.

NOTE: Take-all and footrots were assessed in May, June and July.

#### 83/R/CS/261

GRAIN TONNES/HECTARE

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

FUNGCIDE NONE 9.56 (BEN A) 9.06 (BEN S) 9.84 (NUA A) 10.04 BEN A 9.40 BEN SF A SF A 9.37 8.96 9.46 MEAN

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

TABLE FUNGCIDE
SED 0.535

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

STRATUM DF SE CV%
BLOCK.WP 18 0.757 8.0

GRAIN MEAN DM% 87.1

PLOT AREA HARVESTED 0.00168