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# Yields of the Field Experiments 1979

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## 79/R/WW/5 Fungicides - W. Wheat

### Rothamsted Research

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79/R/WW/5

WINTER WHEAT

FUNGICIDES

Object: To study the effects of a range of fungicides and two methods of application on the incidence of diseases and on the yield of winter wheat - Webbs.

Sponsors: J.F. Jenkyn, R.D. Prew.

Design: 3 randomised blocks of 14 plots.

Whole plot dimensions: 2.13 x 13.4.

Treatments:

| FUNGICIDE | Fungicides and methods of application:                                   |
|-----------|--|
| NONE      | None   |
| BAS389 S  | 'BAS 389' as a seed dressing at 1 g a.i. per kg of seed                  |
| BENOD F   | Benodanil as a foliar spray at 1.1 kg                                    |
| BTS S     | 'BTS 40542' as a seed dressing at 0.2 g a.i. per kg of seed              |
| BTS F     | 'BTS 40542' as a foliar spray at 0.4 kg                                  |
| CARBOX S  | Carboxin as a seed dressing at 1.5 g per kg of seed                      |
| CARBOX F  | Carboxin as a foliar spray at 1.1 kg                                     |
| EL228 S   | 'EL 228' as a seed dressing at 0.2 g a.i. per kg of seed                 |
| EL228 F   | 'EL 228' as a foliar spray at 0.04 kg a.i.                               |
| H719 S    | 'H 719' as a seed dressing at 1.5 g a.i. per kg of seed                  |
| H719 F    | 'H 719' as a foliar spray at 1.1 kg a.i.                                 |
| OM S      | Organo-mercury as a seed dressing ('Agrosan GN' at 2.2 g per kg of seed) |
| PP296 F   | 'PP 296' as a foliar spray at 0.125 kg                                   |
| TRIAD S   | Triadimefon as a seed dressing at 0.5 g per kg of seed                   |

NOTES: (1) All seed dressing treatments (except organo-mercury) were sown at 220 kg. All remaining treatments were sown at 190 kg.  
(2) Foliar sprays were applied on 1 June, 1979 in 340 l.

Basal applications: Manures: (10:23:23) at 250 kg. 'Nitro-Chalk' at 460 kg.  
Weedkillers: Paraquat at 0.42 kg ion in 220 l. Mecoprop with bromoxynil and ioxynil (as 'Brittox' at 0.25 kg in 220 l).

Seed: Kador.

Cultivations, etc.: - Deep-tine cultivated twice: 31 Aug, 1978 and 1 Sept.  
Heavy spring-tine cultivated: 14 Sept. NPK applied: 17 Oct. Paraquat applied: 18 Oct. Rolled and disc harrowed: 23 Oct. Seed sown: 24 Oct.  
N applied: 19 Apr, 1979. 'Brittox' applied: 14 May. Combine harvested: 31 Aug. Previous cropping: Wheat 1977, barley 1978.

NOTE: Foot and root rots were assessed in spring and summer. Leaf diseases were assessed in late summer.

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GRAIN TONNES/HECTARE

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

|          |      |
|----------|------|
| FUNGCIDE |      |
| NONE     | 4.77 |
| BAS389 S | 5.13 |
| BENOD F  | 4.50 |
| BTS S    | 5.65 |
| BTS F    | 5.38 |
| CARBOX S | 5.16 |
| CARBOX F | 4.85 |
| EL228 S  | 5.43 |
| EL228 F  | 4.89 |
| H719 S   | 4.68 |
| H719 F   | 5.11 |
| OM S     | 5.55 |
| PP296 F  | 5.43 |
| TRIAD S  | 5.68 |
| MEAN     | 5.16 |

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

| TABLE | FUNGCIDE |
|-------|----------|
| ----- | -----    |
| SED   | 0.407    |

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

| STRATUM  | DF | SE    | CV% |
|----------|----|-------|-----|
| BLOCK.WP | 26 | 0.498 | 9.7 |

GRAIN MEAN DM% 86.1

PLOT AREA HARVESTED 0.00195