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

Rothamsted Research

Rothamsted Research (1980) *79/R/WW/5 Fungicides - W. Wheat* ; Yields Of The Field Experiments 1979, pp 273 - 274 - DOI: <https://doi.org/10.23637/ERADOC-1-45>

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.

79/R/WW/5

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