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98/W/WW/1 Fungicides and Timings - W. Wheat

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98/W/WW/1

WINTER WHEAT

FUNGICIDES AND TIMINGS

Object: To test some new fungicides on w. wheat - Woburn, Far Field II.

Sponsors: C. Peters.

Design: 3 randomised blocks of 3 x 4 + 1 plots

Plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

1. **FUNG 1** Fungicides in April, growth stage (GS) 32:
AF Azoxystrobin at 150 g and epoxiconazole at 38 g
KF Kresoxim-methyl with epoxiconazole each at 94 g
AKH Azoxystrobin at 75 g with kresoxim-methyl at 50 g and epoxiconazole at 94 g
2. **FUNG 2** Fungicides in May/June, GS 39 and/or 55 and/or 61:
AP39 Azoxystrobin at 200 g with flutriafol at 50 g at GS 39
AP55 Azoxystrobin at 200 g with flutriafol at 50 g at GS 55
Azoxystrobin at 200 g with flutriafol at 50 g at GS 39 and azoxystrobin at 100 g at GS 61
0 Epoxiconazole at 125 g at GS 39

Plus Extra

EXTRA

- Epoxiconazole at 94 g at GS 32 and difenoconazole at 50 g at GS 61

Experimental diary:

- 19-Sep-97 : B : Ploughed.
01-Oct-97 : B : Rolled. Rotary harrowed. Hereward, dressed Sibutol, drilled at 325 seeds per m².
13-Nov-97 : B : Isoproturon 500 at 1.0 l with Stomp 400 SC at 2.0 l and Cyperkill 10 at 0.25 l in 200 l.
11-Feb-98 : B : 34.5% N at 145 kg.
19-Mar-98 : B : Phosyn Manganese at 2.0 l with Profol Copper at 0.25 l in 200 l.
30-Mar-98 : B : 34.5% N at 377 kg.
23-Apr-98 : T : **FUNG 1** AF: Amistar at 0.60 l with Opus at 0.30 l in 220 l.
 : T : **FUNG 1** KF: Landmark at 0.75 l in 220 l.
 : T : **FUNG 1** AKH: Amistar at 0.30 l with Landmark at 0.40 l and Opus at 0.35 l in 200 l.
 : T : **EXTRA** -: Opus at 0.75 l in 200 l.
04-May-98 : B : Tripart Brevis at 2.0 l in 200 l.

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Experimental diary:

21-May-98 : B : Ally at 20 g in 200 l.
 : T : **EXTRA** -: Opus at 0.70 l in 220 l.
 : T : **FUNG 2** AP39, APA: Amistar at 0.80 l with Pointer at
 0.40 l in 220 l.
 : T : **FUNG 2** 0: Opus at 1.0 l in 220 l.
 01-Jun-98 : T : **FUNG 2** AP55: Amistar at 0.80 l with Pointer at 0.40 l in
 200 l.
 12-Jun-98 : T : **FUNG 2** APA: Amistar at 0.40 l in 220 l.
 : T : **EXTRA** -: Plover 250 EC at 0.20 l in 220 l
 12-Aug-98 : B : Combine harvested.

Previous crops: W. wheat 1996, potatoes 1997.

GRAIN TONNES/HECTARE

***** Tables of means *****

| FUNG 2 | AP39 | AP55 | APA | 0 | Mean |
|---------------|------|------|-------|------|------|
| FUNG 1 | | | | | |
| AF | 9.26 | 9.47 | 10.17 | 9.34 | 9.56 |
| KF | 9.55 | 9.75 | 9.74 | 8.97 | 9.50 |
| AKH | 9.55 | 9.86 | 10.50 | 9.11 | 9.76 |
| Mean | 9.45 | 9.69 | 10.14 | 9.14 | 9.61 |
| EXTRA | 8.82 | | | | |

Grand mean 9.54

*** Standard errors of differences of means ***

| FUNG 1 | FUNG 2 | FUNG 1 FUNG 2 & EXTRA |
|---------------|---------------|--|
| 0.114 | 0.132 | 0.228 |

***** Stratum standard errors and coefficients of variation *****

| Stratum | d.f. | s.e. | cv% |
|----------|------|-------|-----|
| BLOCK.WP | 24 | 0.279 | 2.9 |

GRAIN MEAN DM% 88.7

PLOT AREA HARVESTED 0.00230