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98/R/BW/1 Seed Treatments, Winter Barley and Take-all - W. Barley

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98/R/BW/1

WINTER BARLEY

SEED TREATMENTS, WINTER BARLEY AND TAKE-ALL

Object: To investigate the effects of seed treatment fungicides on a site at risk of take-all (*Gaeumannomyces graminis*) - Harwoods Piece.

Sponsors: G.L. Bateman, J.F. Jenkyn, R.J. Gutteridge.

Design: 4 randomised blocks of 14 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

| SEEDFUNG | Seed dressing and/or fungicidal sprays: |
|----------|--|
| - | None |
| -F1F2 | Undressed, fungicide at growth stage (GS) 30-31 and at GS 39 |
| 8R1 | Dressed CR21528 at 200 ml |
| 8R1F2 | Dressed CR21528 at 200 ml and fungicide at GS 39 |
| 8R1F1F2 | Dressed CR21528 at 200 ml, fungicide at GS 30-31 and at GS 39. |
| 8R2 | Dressed CR21528 at 300 ml |
| 8R3 | Dressed CR21528 at 450 ml |
| 8R3F2 | Dressed CR21528 at 450 ml and fungicide at GS 39 |
| 8R3F1F2 | Dressed CR21528 at 450 ml, fungicide at GS 30-31 and at GS 39 |
| 9R1 | Dressed CR21529 at 200 ml |
| 9R2 | Dressed CR21529 at 300 ml |
| 9R3 | Dressed CR21529 at 450 ml |
| FX | Dressed Ferrax |
| FXF1F2 | Dressed Ferrax, fungicide at GS 30-31 and at GS 39 |

NOTE: CR21528 and CR21529 are under commercial development, composition disclosed in confidence.

Experimental diary:

23-Sep-97 : B : Ploughed and furrow pressed.
24-Sep-97 : B : Rolled.
29-Sep-97 : B : Rotary harrowed, Regina, dressed as treatment, drilled at 350 seeds per m².
12-Nov-97 : B : Stefes IPU 500 at 2.0 l with Stomp 400 SC at 2.0 l and Cyperkill 10 at 250 ml in 200 l.
13-Feb-98 : B : 34.5% N at 116 kg.
25-Feb-98 : B : Manganese sulphate at 3.0 kg with Tern 750 EC at 0.75 l in 200 l.
17-Mar-98 : T : **SEEDFUNG** -F1F2, 8R1F1F2, 8R3F1F2, FXF1F2: Sportak Delta 460 MF at 1.0 l with Tern 750 EC at 0.5 l in 220 l.
31-Mar-98 : B : Tripart Brevis at 2.3 l in 200 l.
27-Apr-98 : B : 34.5% N at 300 kg.

98/R/BW/1

Experimental diary:

12-May-98 : T : SEEDFUNG -F1F2, 8R1F2, 8R1F1F2, 8R3F2, 8R3F1F2, FXF1F2:
Opus Team at 1.5 l in 220 l.
10-Jul-98 : B : Alpha Glyphogan at 3.0 l in 400 l.
20-Jul-98 : B : Combine harvested.

Previous crops: Set-aside 1996, s. wheat 1997.

NOTE: Plant samples were taken in March and June to assess diseases. Plant counts and dry weights were also taken in March.

GRAIN TONNES/HECTARE

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

SEEDFUNG

| | |
|---------|-------|
| - | 7.78 |
| -F1F2 | 9.88 |
| 8R1 | 8.33 |
| 8R1F2 | 9.37 |
| 8R1F1F2 | 10.08 |
| 8R2 | 8.23 |
| 8R3 | 8.40 |
| 8R3F2 | 9.82 |
| 8R3F1F2 | 10.08 |
| 9R1 | 8.28 |
| 9R2 | 8.67 |
| 9R3 | 7.88 |
| FX | 7.88 |
| FXF1F2 | 9.73 |
| Mean | 8.89 |

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

SEEDFUNG

0.219

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

| Stratum | d.f. | s.e. | cv% |
|---------------------|---------|-------|-----|
| BLOCK.WP | 39 | 0.310 | 3.5 |
| GRAIN MEAN DM% | 89.5 | | |
| PLOT AREA HARVESTED | 0.00228 | | |