

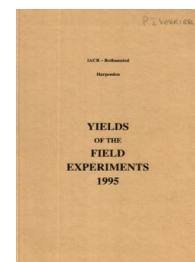
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95/W/CS/435

RYEGRASS, WHEAT VOLUNTEERS AND DISEASES

Object: To study how different populations of cereal volunteers and ryegrass sown as a cover crop affect the survival of cereal diseases - Woburn, School Field.

Sponsors: J.F. Jenkyn, R.J. Gutteridge.

Design: 4 randomised blocks of 10 x 2 plots.

Whole plot dimensions: 6.0 x 10.0.

Treatments:

1. **CROP** Crop, seed rate and soil inoculation:

| | |
|-----|---|
| R | Ryegrass at 30 kg |
| RW | Ryegrass at 30 kg + wheat at 50 seeds per m ² |
| RI | Ryegrass at 30 kg+ soil inoculated with <i>Phialophora graminicola</i> |
| RWI | Ryegrass at 30 kg + wheat at 50 seeds per m ² + soil inoculated with <i>P. graminicola</i> |
| M | Mustard at 300 seeds per m ² |
| MW1 | Mustard at 100 seeds per m ² + wheat at 4 seeds per m ² |
| MW2 | Mustard at 100 seeds per m ² + wheat at 9 seeds per m ² |
| MW3 | Mustard at 100 seeds per m ² + wheat at 50 seeds per m ² |
| MW4 | Mustard at 100 seeds per m ² + wheat at 200 seeds per m ² |
| MW5 | Mustard at 30 seeds per m ² + wheat at 400 seeds per m ² |

2. **CULT** Time of ploughing:

| | |
|----|----------------|
| PE | Early (12 May) |
| PL | Late (17 Aug) |

Experimental diary:

- 22-Aug-94 : B : Discd.
- 07-Sep-94 : B : Gramoxone 100 at 3.0 l in 200 l.
- 10-Sep-94 : B : Ploughed.
- 12-Sep-94 : B : Rolled.
- 13-Sep-94 : B : Rotary harrowed.
- : T : Seeds sown and soil inoculated.
- 24-Nov-94 : T : **CROP** R and RI: Leyclene at 5.0 l in 220 l.
- 11-May-95 : B : Topped.
- 12-May-95 : T : **CULT** PE: Ploughed.
- 29-Jun-95 : T : **CULT** PL: Topped.
- 17-Aug-95 : T : **CULT** PL: Topped, ploughed.

NOTE: Mustard variety was Tilney, wheat, Soissons and ryegrass, Borvi, all undressed.

No yields were taken in 1995.