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95/W/CS/435 Ryegrass, Wheat Volunteers and Diseases - W. Wheat, Ryegrass, Mustard

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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.