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Yields of the Field Experiments 1996



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Rothamsted Research

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96/W/CS/446

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, White Horse.

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

The first year, ryegrass, wheat and mustard.

Design: 4 randomised blocks of 10 x 2 plots.

Whole plot dimensions: 6.0×10.0 .

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 Phialophora graminicola
	RWI	Ryegrass at 30 kg + wheat at 50 seeds per m ² + soil inoculated with P. graminicola
	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 (17 May)
	PL	Late (14 Aug)

Experimental diary:

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22-Aug-95 : B : Disced.
05-Sep-95 : B : Ploughed.
20-Sep-95 : B : Rotary ha
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20-Sep-95 : B : Rotary harrowed.

: T : Seeds sown and soil inoculated.

17-May-96: T: CULT PE: Ploughed. 27-Jun-96: T: CULT PL: Topped.

05-Jul-96 : T : CULT PE: Spiked rotary cultivated.

14-Aug-96 : T : CULT PL: Topped, ploughed.

: T : CULT PE: Topped

15-Aug-96 : B : Roundup at 2.0 1 in 300 1.

Previous crops: S. beans 1994, w. wheat 1995.

96/W/CS/446

NOTES: (1) Mustard variety was Tilney, wheat, Soissons and ryegrass, Borvi, all undressed.

- (2) No yields were taken in 1996.
- (3) soil samples were taken in May and July and bioassayed to determine the presence of *Phialophora graminicola* and *Gaeumannomyces graminis* var *tritici*. Wheat was sampled in April and July to assess root and stem base diseases.