

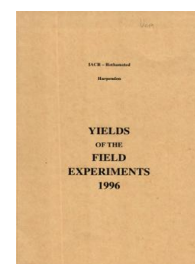
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1996

[Full Table of Content](#)



96/W/CS/446 Ryegrass, Wheat Volunteers and Diseases - W. Wheat

Rothamsted Research

Rothamsted Research (1997) *96/W/CS/446 Ryegrass, Wheat Volunteers and Diseases - W. Wheat ; Yields Of The Field Experiments 1996*, pp 97 - 98 - DOI: <https://doi.org/10.23637/ERADOC-1-51>

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 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 (17 May)
PL	Late (14 Aug)

Experimental diary:

22-Aug-95 : B : Discd.
05-Sep-95 : B : Ploughed.
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 l in 300 l.

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.