

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 1999

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (2000) *99/W/CS/446 Ryegrass, Wheat Volunteers and Diseases - W. Wheat ; Yields Of The Field Experiments 1999*, pp 79 - 80 - DOI: <https://doi.org/10.23637/ERADOC-1-34>

99/W/CS/439

GRAIN TONNES/HECTARE

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

SALTS

A	1.02
ZN1	1.18
ZN2	0.72
ZN3	1.29
CU1	0.79
CU2	0.35
CU3	1.09
CD1	2.01
CD2	1.40
CD3	1.31
Mean	1.11

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

SALTS

0.414	min.rep
0.359	max-min

SALTS

max-min A v any of the remainder
min.rep Any of the remainder

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	19	0.508	45.8
GRAIN MEAN DM%	89.4		
PLOT AREA HARVESTED			

99/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.

For previous year see 96-98/W/CS/446.

The fourth year, w. wheat.

Design: 4 randomised blocks of 10 x 2 plots.

Whole plot dimensions: 6.0 x 10.0.

Treatments:

All combinations of:-

Whole plots

1. **CROP** Crop, seed rate and soil inoculation in 1996:

(R) Ryegrass at 30 kg
(RW) Ryegrass at 30 kg + wheat at 50 seeds per m²
(RI) Ryegrass at 30 kg + soil inoculated with *Phialophora graminicola*
(RWI) Ryegrass at 30 kg + wheat at 50 seeds per m² + soil inoculated with *P. graminicola*
(M) Mustard at 300 seeds per m²
(MW1) Mustard at 100 seeds per m² + wheat at 4 seeds per m²
(MW2) Mustard at 100 seeds per m² + wheat at 9 seeds per m²
(MW3) Mustard at 100 seeds per m² + wheat at 50 seeds per m²
(MW4) Mustard at 100 seeds per m² + wheat at 200 seeds per m²
(MW5) Mustard at 30 seeds per m² + wheat at 400 seeds per m²
2. **CULT** Time of ploughing in 1996:

(PE) Early (17 May)
(PL) Late (14 Aug)

Experimental diary:

25-Sep-98 : B : : Discd.
28-Sep-98 : B : : Ploughed and pressed.
13-Oct-98 : B : : Combination drilled, Rialto, tr. Sibutol, at 380 seeds/m² with the Nordsten drill.
14-Oct-98 : B : : Hardy at 7.5 kg.
22-Feb-99 : B : : 34.5% N at 145 kg.
23-Feb-99 : B : : Platform S at 1.0 kg with Isoguard at 2.0 l and manganese sulphate at 1.0 l in 200 l.
02-Apr-99 : B : : 34.5% N at 377 kg.
03-Apr-99 : B : : tm)Topik at 125 ml in 200 l.
 : B : : tm)Cropoil at 2.5 l in 200 l.
 : B : : tm)Profol Manganese 500 at 1.0 l in 200 l.
 : B : : tm)Profol Copper 500 at 0.25 l in 200 l.