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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.