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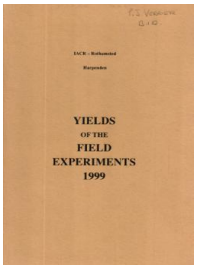
Yields of the Field Experiments 1999

Full Table of Content



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

Rothamsted Research

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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

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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 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 in 1996:

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

Experimental diary:

25-Sep-98	B	Disced.
28-Sep-98	B	Ploughed and pressed.
13-Oct-98	B	Combination drilled, Rialto, tr. Sibutol, at 380 seeds/m^2 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.

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