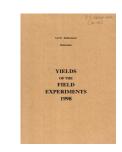
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Yields of the Field Experiments 1998



Full Table of Content

98/W/CS/446 Ryegrass, Wheat Volunteers and Disease - W. Wheat

Rothamsted Research

Rothamsted Research (1999) 98/W/CS/446 Ryegrass, Wheat Volunteers and Disease - W. Wheat; Yields Of The Field Experiments 1998, pp 88 - 89 - DOI: https://doi.org/10.23637/ERADOC-1-52

98/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 96-97/W/CS/446.

The third year, w. wheat.

Design: 4 randomised blocks of 10 x 2 plots.

Whole plot dimensions: 6.0×10.0 .

Treatments:

Whole plots

1. COV 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 m2 + soil
	inoculated with P. graminicola
(M)	Mustard at 300 seeds per m ²
(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

Time of ploughing in 1996:

Early (17 May)

Late (14 Aug)

Experimental diary:

2. PLOUGH

(PE)

(PL)

98/W/CS/446

Experimental diary:

01-Apr-98 : B : Phosyn Manganese at 2.5 l with Profol Copper at 0.25 l in 200 l.

27-Apr-98 : B : Alto 100 SL at 0.6 l with Tripart Brevis at 2.0 l,
Phosyn Manganese at 2.0 l and Profol Copper at
0.25 l in 200 l.

21-May-98 : B : Ally at 15 g with Cheetah Super at 0.5 l, Starane 2 at 0.5 l and Chiltern Cropoil at 1.0 l in 200 l.

31-May-98 : B : Opus at 0.8 1 in 200 1.

12-Jun-98 : B : Folicur at 0.3 1 with Bavistin DF at 0.3 kg in 200 1.

02-Aug-98 : B : Roundup Biactive at 4.0 1 in 200 1.

13-Aug-98 : B : Combine harvested.

NOTE: Plant samples were taken in April and June to assess root and stem base diseases.

GRAIN TONNES/HECTARE

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

CULT	(PE)	(PL)	Mean
CROP			
(R)	5.18	4.12	4.65
(RW)	3.77	4.85	4.31
(RI)	5.91	5.58	5.75
(RWI)	5.06	6.88	5.97
(M)	4.94	4.42	4.68
(MW1)	4.76	4.79	4.78
(MW2)	4.71	3.52	4.12
(MW3)	4.22	3.32	3.77
(MW4)	3.45	2.61	3.03
(MW5)	2.99	3.14	3.07
Mean	4.50	4.32	4.41

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

CROP	CULT	CROP	
		CULT	
0 690	0.308	0.975	

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

Stratum	d.f.	s.e.	CV%
BLOCK.WP	57	1.379	31.3

GRAIN MEAN DM% 88.5

PLOT AREA HARVESTED 0.00460