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99/R/CS/323 Cereal Sequences and Take-all - W. Wheat

Rothamsted Research

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99/R/CS/311

Experimental diary:

07-Apr-99 : T : RAS : Decoy at 15 kg.
 08-Apr-99 : T : RAS : Clayton Metazachlor at 1.0 l in 200 l.
 15-Apr-99 : B : : 34.5% N at 435 kg.
 19-May-99 : T : RAS : Hallmark at 150 ml in 200 l.
 29-May-99 : T : -,G,WR : tm)Folicur at 1.0 l in 100 l.
 : T : -,G,WR : tm)Sipcam UK Rover 500 at 1.0 l in 100 l.
 09-Jun-99 : T : RAS : Hallmark at 150 ml in 200 l.
 25-Jun-99 : T : WR : Roundup at 4.0 l in 200 l.
 : T : -,G : tm)Folicur at 0.25 l in 100 l.
 : T : -,G : tm)Magnesium sulphate at 5.0 kg in 100 l.
 29-Jul-99 : T : -,G : Combine harvested.
 25-Aug-99 : T : RA : Combine harvested, no yields.

NOTE: Yields were only taken from the 'rows' in w. wheat; - and G.

GRAIN TONNES/HECTARE

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

GLYPHOS	-	G	Mean
STRAW			
BU	9.49	10.20	9.85
BA	3.98	9.81	6.90
CH	5.19	9.10	7.15
Mean	6.22	9.71	7.96

GRAIN MEAN DM% 86.7

SUB-PLOT AREA HARVESTED 0.00276

99/R/CS/323

CEREAL SEQUENCES AND TAKE-ALL

Object: To study the effect of seed treatment on take-all (*Gaeumannomyces graminis*) in w. wheat grown after various cereal sequences - West Barnfield II.

Sponsors: R.J. Gutteridge, J.F. Jenkyn, G.L. Bateman.

The 12th year, w. wheat.

For previous years see 88-96, 98/R/CS/323.

Design: 3 randomised blocks of 26 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

1. **FUN99** Seed dressing in 1999:

NONE	None
FLUQUIN	Fluquinconazole
2. **GROUP** Crop sequences and levels of take-all decline:

I	Old sequences with well established take-all decline
II	Old sequences with less well established take-all decline
III	Old sequences with take-all decline possibly not established

Experimental diary:

15-Sep-98	: B :	: Ploughed and furrow pressed.
24-Sep-98	: T : NONE	: Combination drilled, Hereward, recleaned, at 380 seeds/m ² with the Accord drill.
	: T : FLUQUIN	: Combination drilled, Hereward, treated, at 380 seeds/m ² with the Accord drill.
25-Sep-98	: B :	: Rolled.
01-Dec-98	: B :	: tm)Amazon at 1.0 l in 200 l.
	: B :	: tm)Isogard at 2.0 l in 200 l.
	: B :	: tm)Stefes Cypermethrin 2 at 250 ml in 200 l.
	: B :	: tm)Cropoil at 1.0 l in 200 l.
12-Feb-99	: B :	: Muriate of potash at 600 kg.
12-Mar-99	: B :	: 34.5% N at 145 kg.
18-Mar-99	: B :	: Triple superphosphate at 300 kg.
15-Apr-99	: B :	: 34.5% N at 435 kg.
01-May-99	: B :	: Opus at 0.7 l in 200 l.
29-May-99	: B :	: tm)Folicur at 1.0 l in 100 l.
	: B :	: tm)Sipcam UK Rover 500 at 1.0 l in 100 l.
25-Jun-99	: B :	: tm)Folicur at 0.25 l in 100 l.
	: B :	: tm)Magnesium sulphate at 5.0 kg in 100 l.
29-Jul-99	: B :	: Combine harvested.

Previous crops: Set-aside 1997, w. wheat 1998.