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00/R/CS/504 Break Crops and Take-all - W. Wheat

Rothamsted Research

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00/R/CS/504

BREAK CROPS AND TAKE-ALL

Object: To test effects of different break crops on take-all (*Gaeumannomyces graminis*) in the following wheat - Great Harpenden II.

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

Design: 4 Blocks of 7 plots.

The second year, w. wheat.

For previous year see 99/R/CS/504.

Whole plot dimensions: 6.0 x 10.0.

Treatments:

CROP	Crop in 1999:
(BE)	Winter beans
(LN)	Winter linseed
(LP)	Winter lupins
(W)	Winter wheat
(PE)	Winter peas
(RA)	Winter rape
(O)	Winter oats

Experimental diary:

01-Sep-99 : B : : Ploughing started.
02-Sep-99 : B : : Ploughing completed.
14-Sep-99 : B : : Disced, rolled.
15-Sep-99 : B : : Disced.
17-Sep-99 : B : : Combination drilled, Hereward, tr. Sibutol at 380 seeds/m², with the Accord drill.
22-Sep-99 : B : : Genesis at 5.0 kg.
26-Oct-99 : B : : tm)Lexus 50 DF at 20 g in 200 l.
: B : : tm)Stomp 400 SC at 2.5 l in 200 l.
: B : : tm)Cyberkill 10 at 250 ml in 200 l.
09-Mar-00 : B : : 34.5% N at 145 kg.
06-Apr-00 : B : : tm)Topik at 125 ml in 200 l.
: B : : tm)Toil at 0.5 l in 200 l.
19-Apr-00 : B : : 34.5% N at 377 kg.
27-Apr-00 : B : : Opus at 0.4 l in 200 l.
01-May-00 : B : : Moddus at 0.2 l in 200 l.
07-May-00 : B : : tm)Sypex at 1.0 l in 200 l.
: B : : tm)Enhance Low Foam at 80 ml in 200 l.
22-May-00 : B : : Opus at 0.75 l in 100 l.
10-Aug-00 : B : : Combine harvested.

Previous crops: W. wheat 1998, treatment 1999.

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

00/R/CS/504

GRAIN TONNES/HECTARE

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

CROP	
(BE)	6.47
(LN)	7.15
(LP)	6.75
(W)	3.81
(PE)	6.53
(RA)	6.29
(O)	7.84
Mean	6.41

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

CROP
0.325

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	18	0.460	7.2
GRAIN MEAN DM%	83.3		
PLOT AREA HARVESTED	0.00237		