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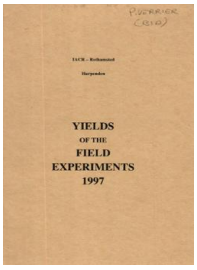
Yields of the Field Experiments 1997

Full Table of Content



97/R/CS/483 Severe Take-all in Wheat - S. Wheat

Rothamsted Research

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97/R/CS/483

SEVERE TAKE-ALL IN WHEAT

Object: To create severe take-all (*Gaeumannomyces graminis*) in winter wheat by applying inoculum artificially to a preceding spring wheat - Summerdells I.

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

Design: 4 randomised blocks of 14 plots.

Plot dimensions: 3.0 x 10.0.

Treatments:-

INOCULTN	Inoculum:
-	None
TA	Take-all inoculum on sterile oat grain

NOTE: Each treatment appears seven times in each block.

Experimental diary:

08-Jul-96	B		Deep tine cultivated with vibrating tines 60 cm apart and 45 cm deep.
10-Jul-96	B		Rolled.
25-Oct-96	B		Ploughed.
11-Mar-97	B		Rotary harrowed, spring-tine cultivated twice.
	T		**INOCULTN** TA: Inoculated oat grain broadcast.
12-Mar-97	B		Rotary harrowed, Chablis, undressed, drilled at 400 seeds per m^2.
14-Mar-97	B		Rolled.
12-May-97	B		34.5% N at 370 kg.
22-May-97	B		Campbell's CMPP at 2.1 l with Vindex at 1.0 l in 300 l.
05-Sep-97	B		Combine harvested.

Previous crops: W. and S. rape 1995, set-aside 1996.

NOTE: Take-all patches were assessed in July.

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97/R/CS/483

GRAIN TONNES/HECTARE

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

INOCULTN	
-	7.29
TA	6.26
Mean	6.77

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

INOCULTN
0.142

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	51	0.529	7.8

GRAIN MEAN DM% 84.5

PLOT AREA HARVESTED 0.00240

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