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93/R/CS/354 Sowing Dates and Take-all - W. Wheat

Rothamsted Research

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93/R/CS/354

SOWING DATES AND TAKE-ALL

Object: To study the effects of sequences of sowing dates and volunteers on take-all (*Gaeumannomyces graminis*) and yield of winter wheat - Little Knott I.

Sponsors: R.J. Gutteridge, D. Hornby.

The third year, w. wheat.

For previous years see 91-92/R/CS/354

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

SOW SEQ	Sequences of sowing date in 1991, 1992 and 1993 and level of volunteers in 1992 and 1993:
E E E	Early in 1991, 1992 and 1993
E L L	Early in 1991, late in 1992 and 1993
E L+ L+	Early in 1991, late in 1992 and 1993, volunteers encouraged in second and third years
L E E	Late in 1991, early in 1992 and 1993
L L* L*	Late in 1991, 1992 and 1993, volunteers controlled in second and third years

NOTE: On E L+ L+ volunteers simulated by sowing 50 kg wheat seed after cultivations on 15 Sept.

Experimental diary:

02-Sep-92 : B : Ploughed and furrow pressed.
15-Sep-92 : B : Rotary harrowed.
 : T : **SOW SEQ** E E E, L E E: Rotary harrowed, Mercia, dressed Cerevax, drilled at 380 seeds per square metre.
14-Oct-92 : T : **SOW SEQ** L L* L*: Rotary harrowed to control volunteers.
 : T : **SOW SEQ**: E L L, E L+ L+, L L* L*: Rotary harrowed, Mercia, dressed Cerevax, drilled at 380 seeds per square metre.
11-Mar-93 : B : Hytane 500 FW at 3.0 l and Stomp 400 at 2.5 l in 200 l.
15-Mar-93 : B : PK as (0:18:36) at 1250 kg.
20-Apr-93 : B : 34.5% N at 460 kg.
03-Jun-93 : B : Cheetah R at 2.5 l and Calixin at 0.70 l in 200 l.
08-Jun-93 : B : Halo at 2.0 l in 200 l.
17-Aug-93 : B : Combine harvested.

NOTE: Plant samples were taken in April and July for take-all assessment. Soil cores were taken after harvest to assess take-all infectivity.

93/R/CS/354

GRAIN TONNES/HECTARE

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

SOW SEQ	E E E	E L L	E L+ L+	L E E	L L* L*	Mean
	7.93	7.54	7.05	7.49	7.75	7.55

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

SOW SEQ
0.335

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.474	6.3

GRAIN MEAN DM% 87.1

PLOT AREA HARVESTED 0.00228