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

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95/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.

Sponsor: R.J. Gutteridge.

The fifth year, w. wheat.

For previous years see 91-94/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 1991-1994 and level of volunteers in 1992-1994, all sown in mid-September 1994:
(E E E E)	Early in 1991, 1992, 1993 and 1994
(E L L L)	Early in 1991, late in 1992, 1993 and 1994
(E L+ L+ L+)	Early in 1991, late in 1992, 1993 and 1994, volunteers encouraged since 1992
(L E E E)	Late in 1991, early in 1992, 1993 and 1994
(L L* L* L*)	Late in 1991, 1992, 1993 and 1994, volunteers controlled since 1992

Experimental diary:

21-Aug-94 : B : Straw baled.
01-Sep-94 : B : Ploughed and furrow pressed.
12-Sep-94 : B : Rotary harrowed, Mercia, dressed Cerevax, drilled at 380 seeds per m².
13-Sep-94 : B : Rolled.
18-Nov-94 : B : Auger at 3.0 l with Stomp 400 at 2.5 l and Ripcord at 250 ml in 200 l.
13-Mar-95 : B : 34.5% N at 118 kg.
13-Apr-95 : B : 34.5% N at 463 kg.
02-Aug-95 : 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.

95/R/CS/354

GRAIN TONNES/HECTARE

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

SOW SEQ	
(E E E E)	3.85
(E L L L)	3.66
(E L+ L+ L+)	3.03
(L E E E)	3.18
(L L* L* L*)	3.53
Mean	3.45

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

SOW SEQ
0.337

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.477	13.8

GRAIN MEAN DM% 92.3

PLOT AREA HARVESTED 0.00228