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

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94/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 fourth year, w. wheat.

For previous years see 91-93/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:
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

NOTE: On E L+ L+ L+, volunteers simulated by sowing 50 kg wheat seed after cultivations on 24 September, 1993.

Experimental diary:

13-Sep-93 : B : Ploughed.
23-Sep-93 : B : Rotary harrowed.
24-Sep-93 : T : **SOW SEQ** E E E E, L E E E: Rotary harrowed twice, Mercia, dressed Cerevax, drilled at 380 seeds per m².
15-Oct-93 : T : **SOW SEQ** L L* L* L*: Gramoxone 100 at 1.5 l with Vassgro Spreader at 220 ml in 220 l.
19-Oct-93 : T : **SOW SEQ** E L L L, E L+ L+ L+, L L* L* L*: Rotary harrowed, Mercia, dressed Cerevax, drilled at 380 seeds per m².
21-Dec-93 : B : Draza at 5.5 kg.
10-Mar-94 : B : 34.5% N at 118 kg.
19-Apr-94 : B : 34.5% N at 448 kg.
01-May-94 : B : Hytane 500 SC at 3.0 l with Starane 2 at 0.75 l and Wildcat at 1.25 l in 200 l.
19-May-94 : B : 34.5% N at 100 kg.
13-Jun-94 : B : Halo at 2.0 l with Mallard 750 EC at 0.5 l in 200 l.
17-Jun-94 : B : Hostathion at 840 ml in 200 l.
29-Jul-94 : B : Glyphogan at 4.0 l in 200 l.
16-Aug-94 : B : Combine harvested.

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

GRAIN TONNES/HECTARE

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

SOW SEQ	
E E E E	7.54
E L L L	7.19
E L+ L+ L+	7.15
L E E E	7.37
L L* L* L*	7.26
Mean	7.30

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

SOW SEQ
0.162

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.229	3.1
GRAIN MEAN DM%	87.4		
PLOT AREA HARVESTED	0.00226		