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## Yields of the Field Experiments 1994

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

#### Rothamsted Research

Rothamsted Research (1995) *94/R/CS/354 Sowing Dates and Take-all - W. Wheat* ; Yields Of The Field Experiments 1994, pp 77 - 78 - DOI: <https://doi.org/10.23637/ERADOC-1-49>

## 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:

<b>SOW SEQ</b>	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 m<sup>2</sup>.  
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 m<sup>2</sup>.  
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		