

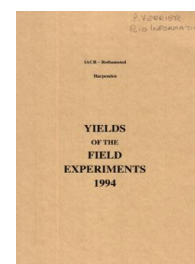
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

# Yields of the Field Experiments 1994

[Full Table of Content](#)



## 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.

94/R/CS/354

**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		