

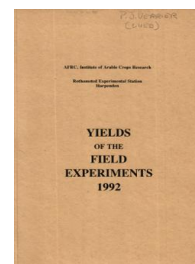
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92/R/CS/354 Sowing Dates and Take-all - W. Wheat

Rothamsted Research

Rothamsted Research (1993) *92/R/CS/354 Sowing Dates and Take-all - W. Wheat* ; Yields Of The Field Experiments 1992, pp 79 - 80 - DOI: <https://doi.org/10.23637/ERADOC-1-47>

92/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 second year, w. wheat.

For first year see 91/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 and 1992, and level of volunteers in 1992:

ERL ERL	Early in 1991 and 1992
ERL LATE	Early in 1991 and late in 1992
ERL LT V	Early in 1991 and late in 1992, when volunteers encouraged
LATE ERL	Late in 1991 and early in 1992
LT LT NV	Late in 1991 and late in 1992, when volunteers controlled

NOTE: On ERL LT V volunteers simulated by sowing 50 kg wheat seed after cultivations on 12 Sept.

Experimental diary:

30-Aug-91 : B : Straw baled.
07-Sep-91 : B : Ploughed and furrow pressed.
11-Sep-91 : B : Rotary harrowed.
12-Sep-91 : T : **SOW SEQ** ERL ERL and LATE ERL: Rotary harrowed, Mercia drilled at 161 kg.
12-Sep-91 : B : Rolled.
08-Oct-91 : T : **SOW SEQ** LT LT NV: Sting CT at 2.0 l in 200 l.
14-Oct-91 : T : **SOW SEQ** ERL LATE, ERL LT V and LT LT NV: Rotary harrowed, Mercia drilled at 161 kg.
15-Oct-91 : B : Rolled.
16-Nov-91 : B : Stefes IPU at 1.0 l, Stomp 400 at 2.5 l and Decis at 0.20 l in 200 l.
06-Mar-92 : B : 34.5% N at 120 kg.
02-Apr-92 : B : 34.5% N at 460 kg.
20-May-92 : B : Dorin at 1.0 l and Chiltern Olé at 1.5 l in 200 l.
23-Jun-92 : B : Mistral at 0.50 l and Radar at 0.50 l in 200 l.
03-Aug-92 : B : Combine harvested.

NOTE: Plants were sampled in April and July to assess take-all. Soil cores were taken after harvest to assess take-all infectivity.

92/R/CS/354

GRAIN TONNES/HECTARE

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

SOW SEQ		
ERL ERL		7.31
ERL LATE		7.02
ERL LT V		7.21
LATE ERL		7.62
LT LT NV		6.95
Mean		7.22

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

SOW SEQ
0.289

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.409	5.7

GRAIN MEAN DM% 86.6

PLOT AREA HARVESTED 0.00226