

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 1991

[Full Table of Content](#)



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

#### Rothamsted Research

Rothamsted Research (1992) *91/R/CS/354 Sowing Dates and Take-all - W. Wheat* ; Yields Of The Field Experiments 1991, pp 96 - 97 - DOI: <https://doi.org/10.23637/ERADOC-1-46>

91/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 first year, w. wheat.

**Design:** 4 randomised blocks of 5 plots.

**Whole plots dimensions:** 3.0 x 10.0.

**Treatments:**

**SOW DATE**            Sowing dates:

17 SEP                17 September, 1990 (triplicated)

11 OCT                11 October (duplicated)

**Basal applications:** Manure: (0:16:36) at 980 kg. 'Nitram' at 580 kg. Weedkillers: Isoproturon at 1.3 kg and pendimethalin at 1.3 kg with the insecticide in 200 l. Difenzoquat at 1.0 kg with a wetting agent, 'Vassgro' at 1.0 l, in 200 l. Fungicides: Fenpropimorph at 0.38 kg in 200 l. Chlorothalonil at 0.49 kg and flutriafol at 78 g in 200 l. Insecticide: Deltamethrin at 5.0 g.

**Seed:** Mercia, sown at 170 kg.

**Cultivations, etc.:-** PK applied: 22 Aug, 1990. Ploughed: 30 Aug. Rotary harrowed all plots, **SOW DATE** 17 SEP rotary harrowed again and seed sown: 17 Sept. **SOW DATE** 11 OCT rotary harrowed, seed sown: 11 Oct. Isoproturon, pendimethalin and the insecticide applied: 21 Nov. Difenzoquat with wetting agent applied: 13 Mar, 1991. N applied: 28 Mar. Fenpropimorph applied: 9 May. Chlorothalonil and flutriafol applied: 20 June. Combine harvested: 20 Aug. Previous crops: W. wheat 1989, w. oats 1990.

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

91/R/CS/354

GRAIN TONNES/HECTARE

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

SOW DATE

17 SEP 9.39

11 OCT 9.45

Mean 9.41

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

SOW DATE

0.086

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

Stratum	d.f.	s.e.	cv%
---------	------	------	-----

BLOCK.WP	15	0.187	2.0
----------	----	-------	-----

GRAIN MEAN DM% 86.7

PLOT AREA HARVESTED 0.00230