

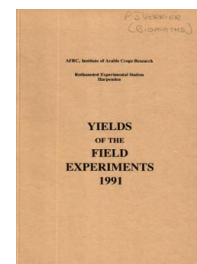
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91/R/CS/354 Sowing Dates and Take-all - W. Wheat

Rothamsted Research

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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.

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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%
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BLOCK.WP	15	0.187	2.0
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GRAIN MEAN DM% 86.7

PLOT AREA HARVESTED 0.00230