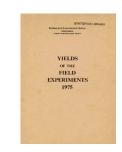
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Yields of the Field Experiments 1975



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Rothamsted Research

Rothamsted Research (1976) 75/ R/WW/4 - Sowing Dates & Insecticides - Winter Wheat; Yields Of The Field Experiments 1975, pp 293 - 294 - DOI: https://doi.org/10.23637/ERADOC-1-141

75/R/WW/4

WINTER AND SPRING WHEAT

SOWING DATES AND INSECTICIDES

Object: To study the effects of dates of sowing and times of applying insecticides on the incidence of cereal aphids, barley yellow dwarf virus (BYDV) and yield of winter wheat - Whittlocks.

Sponsor: R.T. Plumb.

Design: 4 randomised blocks of 12 plots.

1 Dotos of series

Whole plot dimensions: 6.40 x 24.4.

Treatments: All combinations of:-

| 1. Dates of sowing: | SOW | DATE |
|--|-----|-------------------|
| 8 November 1974 5 December 1974 27 February 1975 | 5 | NOV DEC FEB |

2. Phorate granules to seedbed: INSCICDE(1)

None
Phorate at 5 kg
PHORATE

3. Menazon spray: INSCTCDE(2)

None
Menazon (0.7 1 *Saphi-Col* in 450 1
on 13 June 1975)

NONE

MENAZON

NOTE: It was intended to sow winter wheat in September, October and November, but because of poor weather, only two autumn sowings were possible and the third series of plots were sown with spring wheat on 27 February.

Seed: Winter wheat: Cappelle, sown at 200 kg. Spring wheat: Kleiber, sown at 200 kg.

Basal applications: Manures: (10:24:24) at 250 kg, 'Nitro-Chalk' at 500 kg.

Cultivations, etc.:- Ploughed: 25 Sept to 9 Oct, 1974. Springtine cultivated twice: 7 Nov. Phorate applied, plots rotary cultivated, seed sown: 8 Nov. Phorate applied and plots power harrowed, seed sown: 5 Dec. Phorate applied, plots power harrowed, seed sown: 27 Feb, 1975. N applied to all plots: 20 Apr. Combine harvested: November and December sowing: 14 Aug, February sowing: 28 Aug. Previous crops: Barley 1973, Oats 1974.

NOTE: Aphid counts were made on 24 Apr, 22 May, 11 June, 4, 10 and 21 July, virus counts on 26 June and 4 July. Ear weights and grain numbers prior to harvest and 1,000 grain weights were determined.

| 75/R/WW/ |
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GRAIN TONNES/HECTARE

| *** TABLES OF | MEANS *** | | | |
|-------------------------|-----------|---------|---------|---------|
| INSCICDE(1) SOW DATE | NONE | PHORATE | MEA | N |
| 8 NOV | 5.90 | 5.99 | 5.9 | 4 |
| 5 DEC | | 5.74 | | |
| 27 FEB | | 4.27 | 4.0 | 2 |
| MEAN | 5.09 | 5.33 | 5.2 | 1 |
| INSCICDE(2) SOW DATE | | MENAZON | MEA | N |
| 8 NOV | | 5.91 | 5.9 | 4 |
| 5 DEC | | | | |
| 27 FEB | | 4.03 | | |
| MEAN | 5.20 | 5.22 | 5.2 | 1 |
| INSCTCDE(2) INSCTCDE(1) | NONE | MENAZON | MEA | N |
| NONE | 5.01 | 5.17 | 5.0 | Q |
| PHORATE | | | 5.3 | |
| MEAN | 5.20 | 5.22 | 5.2 | 1 |
| INSCTCDE(1) |) NONE | | PHORATE | |
| INSCICDE(2) |) NONE | MENAZON | NONE | MENAZON |
| 8 NO | | 5.86 | 6.02 | 5.96 |
| 5 DEC | | | 5.74 | 5.74 |
| 27 FE | | 3.94 | 4.41 | 4.13 |
| | | | | |

*** STANDARD ERRORS OF DIFFERENCES OF MEANS ***

| TABLE | SOW DATE | INSCTCDE(1) | INSCTCDE(2) | SOW DATE INSCTCDE(1) |
|-------|-------------------------|-------------------------|--|-------------------------|
| SED | 0.145 | 0.118 | 0.118 | 0.205 |
| TABLE | SOW DATE INSCICDE(2) | INSCTCDE(1) INSCTCDE(2) | SOW DATE INSCTCDE(1) INSCTCDE(2) | |
| SED | 0.205 | 0.167 | 0.290 | |

*** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION ***

| STRATUM | DF | SE | CV % |
|------------|----|-------|------|
| BLOCK . WP | 33 | 0.410 | 7.9 |

GRAIN MEAN DM% 87.3

294 PLOT AREA HARVESTED 0.00390