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## Yields of the Field Experiments 1971

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### 71/R/WW/2 Septoria - W. Wheat

#### Rothamsted Research

Rothamsted Research (1972) *71/R/WW/2 Septoria - W. Wheat* ; Yields Of The Field Experiments 1971, pp 239 - 240 - DOI: <https://doi.org/10.23637/ERADOC-1-97>

71/R/WW/2

WINTER WHEAT

SEPTORIA

Object: To study the effects of different amounts of seed infection on yield and incidence of Septoria - Great Knott II.

Design: 4 x 4 Latin square. Each whole plot was split into 5, the middle sub plot being treated, and the flanking ones untreated and used to assess Septoria spread.

Whole plot dimensions: 13.3 x 9.14. Sub plot area harvested: 0.00013.

Treatments: Infection with Septoria:-

|                  |     |
|------------------|-----|
| None             | (O) |
| Low infection    | (L) |
| Medium infection | (M) |
| High infection   | (H) |

The levels of infection were achieved by mixing different quantities of Septoria infected seed with seed which had been disinfected by soaking in thiram fungicide. Levels of infection were reinforced by spraying plants with spore suspensions.

Basal applications: 380 kg (8:20:16) combine drilled and 600 kg 'Nitro-Chalk' in spring. Weedkiller: 2,4-D at 0.56 kg and dichlorprop at 2.24 kg in 225 l.

Cultivations, etc.: Deep-tine cultivated on two occasions: 6 and 7 Oct, 1970. Seed combine drilled at 202 kg: 22 Oct. Weedkiller applied: 14 Apr, 1971. N applied: 16 Apr. Combine harvested: 28 Aug. Variety: Champlain. Previous crops: Fallow 1969, potatoes 1970.

NOTE: (1) Seedling infection with Septoria was assessed and estimates made of foliar diseases at intervals.  
(2) The yields presented are from the treated sub plots only.

Standard error per sub plot.

Grain, tonnes/hectare: 0.228 or 2.8% (6 d.f.)

71/R/WW/2

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

| O    | L    | M        | H    | Mean |
|------|------|----------|------|------|
|      |      | (±0.114) |      |      |
| 8.32 | 8.11 | 8.30     | 7.89 | 8.16 |

Mean D.M. %: 82.6