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# Yields of the Field Experiments 1981

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## 81/R/WS/1 Alternaria Inoculation - S. Wheat

### Rothamsted Research

Rothamsted Research (1982) *81/R/WS/1 Alternaria Inoculation - S. Wheat* ; Yields Of The Field Experiments 1981, pp 263 - 263 - DOI: <https://doi.org/10.23637/ERADOC-1-35>

81/R/WS/1

SPRING WHEAT

ALTERNARIA INOCULATION

Object: To study the effects of times of inoculating Alternaria on grain quality and yield of s. wheat - Long Hoos V 5.

Sponsor: N. Magan

Design: 3 randomised blocks of 4 plots.

Whole plot dimensions: 2.16 x 2.13

Treatments:

| INOCTIME | Times of applying Alternaria inoculum: |
|----------|----------------------------------------|
| 0        | Not inoculated                         |
| ZGS 50   | Zadoks growth stage 50                 |
| ZGS 60   | " " " 60                               |
| ZGS 70   | " " " 70                               |

Basal applications: 'Nitro-Chalk' at 450 kg, combine drilled.

Seed: Timmo, sown at 180 kg.

Cultivations, etc.: - Ploughed: 13 Nov, 1980. Power harrowed, seed sown: 13 Apr, 1981. Combine harvested: 4 Sept. Previous crops: S. wheat 1979, potatoes 1980.

NOTES: Plots were sampled weekly after treatment for Alternaria and other microflora. Ear samples were taken just before harvest to measure Alternaria microtoxins.

GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

| INOCTIME | 0    | ZGS 50 | ZGS 60 | ZGS 70 | MEAN |
|----------|------|--------|--------|--------|------|
|          | 3.93 | 3.94   | 4.07   | 3.87   | 3.95 |

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

| TABLE | INOCTIME |
|-------|----------|
| ----- | -----    |
| SED   | 0.327    |

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

| STRATUM             | DF      | SE    | CV%  |
|---------------------|---------|-------|------|
| BLOCK.WP            | 6       | 0.401 | 10.1 |
| GRAIN MEAN DM%      | 78.5    |       |      |
| PLOT AREA HARVESTED | 0.00046 |       |      |