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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
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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