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Yields of the Field Experiments 1973

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73/R/WW/4 - Septoria - Winter Wheat

Rothamsted Research

Rothamsted Research (1974) *73/R/WW/4 - Septoria - Winter Wheat* ; Yields Of The Field Experiments 1973, pp 308 - 309 - DOI: <https://doi.org/10.23637/ERADOC-1-98>

73/R/WW/4

WINTER WHEAT

SEPTORIA

Object: To study the effects of different amounts of artificially and naturally infected straw and artificially infected seed on the development of Septoria and its effects on yield - Great Knott I.

Sponsors: J.F. Jenkyn, J. King (MAFF).

Design: 6 x 6 Latin square.

Whole plot dimensions: 4.27 x 9.14. Area harvested: 0.00260.

Treatments: Infection with Septoria	SEPTORIA
None	0
Straws, artificially infected, worked into seedbed (8 cm pieces, thousands per hectare):-	
143	ART1
765	ART2
2470	ART3
Straws, naturally infected, worked into seedbed (8 cm pieces, thousands per hectare):-	
2470	NAT3
Seed artificially infected	SEED

Basal applications: Manures: 310 kg (0:20:20) combine drilled, 380 kg 'Nitro-Chalk' in spring. Weedkiller: MCPA, mecoprop and dicamba ('Tetralex plus' 7.0 l in 220 l).

Seed: Cappelle, dressed with dieldrin, sown at 200 kg.

Cultivations, etc.:- Deep-tine cultivated twice, inoculum applied and power harrowed: 24 Oct, 1972. Seed combine drilled: 25 Oct. N applied: 13 Apr, 1973. Weedkiller applied: 26 Apr. Combine harvested: 22 Aug. Previous crops: Fallow 1971, potatoes 1972.

NOTE: Septoria nodorum was assessed soon after seedling emergence and after ear emergence.

Standard error per plot.

Grain, tonnes/hectare: 0.421 or 6.7% (20 d.f.)

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TABLES OF MEANS

GRAIN: TONNES/HECTARE

SEPTORIA

□	ART1	ART2	ART3	NAT3	SEED	Mean
6.10	6.55	6.18	6.35	6.14	6.36	6.28

STANDARD ERROR OF DIFFERENCES

SEPTORIA

0.243

Mean D.M. % 84.7