

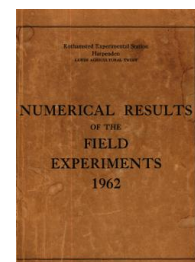
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Yields of the Field Experiments 1962

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62/R/DA/4 Spring Wheat - Azotobacter Inoculation and N

Rothamsted Research

Rothamsted Research (1963) *62/R/DA/4 Spring Wheat - Azotobacter Inoculation and N* ; Yields Of The Field Experiments 1962, pp 128 - 128 - DOI: <https://doi.org/10.23637/ERADOC-1-164>

62/Da/4

SPRING WHEAT

Effects of nitrogen and inoculation with Azotobacter - Fosters Corner 1962.

Design: 4 randomised blocks of 6 plots each.

Area of each plot: 0.0112 acres.

Treatments. All combinations of:-

Nitrogen: None; 0.2; 0.8 cwt N per acre applied as 'Nitro-Chalk'.

Azotobacter inoculation: None (sterile medium, no carbon source);

Azotobacter culture applied to seed.

Basal dressing: $2\frac{1}{2}$ cwt compound fertiliser (20% P_2O_5 , 20% K_2O) per acre combine drilled.

Cultivations, etc.: Ploughed: Dec 16, 1961 - Jan 30, 1962. 'Nitro-Chalk' applied, seed drilled at $2\frac{3}{4}$ bushels per acre: Mar 17.

Sprayed with MCPA/MBA at 4 pints in 40 gallons per acre: June 2.

Combine harvested: Sept 13. Variety: Jufy I. Previous crops:

Spring wheat 1960; sugar beet 1961.

Note: Crop samples were taken during the season for counts of Azotobacter. Measurements of the height of the crop were made in July.

Standard error per plot.

Grain (at 85% dry matter): 2.96 cwt per acre or 7.6% (15 d.f.)

Summary of Results

Grain (at 85% dry matter): cwt per acre

Inoculation	N cwt per acre			Mean
	None	0.2	0.8	
		(± 1.48)		(± 0.85)
None	37.9	37.6	40.7	38.7
<u>Azotobacter</u>	39.3	39.3	40.2	39.6
Mean (± 1.04)	38.6	38.4	40.4	39.1

Mean dry matter % as harvested: 72.4