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Yields of the Field Experiments 1948

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48/CA/5 Wheat - Inoculation

Rothamsted Research

Rothamsted Research (1949) *48/CA/5 Wheat - Inoculation* ; Yields Of The Field Experiments 1948, pp 67 - 69

4.8/Ca/4.2

	Mean Yields				0 v S v D	Standard errors D ₁ v D ₂ v D ₃	0, S v D ₁ , D ₂ , D ₃
	Untreated (0)	Treated Seed (S)	Gammexane Dust (D)				
			$\frac{1}{4}$ cwt/ acre (D ₁)	$\frac{1}{2}$ cwt/ acre (D ₂)	1 cwt/ acre (D ₃)		
Grain: cwt/acre	13.6	26.3	28.4	27.7	±0.76	±1.42	±1.12
Straw: cwt/acre	32.8	56.2	60.2	59.6	±1.63	±2.65	±2.23

48/Ca/5.1

SPRING WHEAT

The effects of inoculation and wetting of seed, and of sulphate of ammonia.

RW - Long Hoos 1948

System of replication: 3 randomized blocks of 6 plots each.

Area of each plot: 0.0158 acre.

Treatments:

Seed: untreated, inoculated by wet method, wetted but not inoculated.

Sulphate of ammonia: None, 0.3 cwt. N per acre.

Note: The inoculum was a bacterial culture of French origin.

Basal manuring: 3 cwt. Superphosphate and 1 cwt. muriate of potash per acre.

Cultivations, etc.: Ploughed: Sept. 30 - Oct. 2. Rolled and springtine harrowed: Mar. 10. Sulphate of ammonia applied and basal manuring broadcast by machine: Mar. 12. Harrowed and seed drilled: Mar. 13. Harrowed in: Mar. 15. Rolled: Mar. 20. Weeds hand pulled: June 8. Harvested: Aug. 24. Variety: Bersee.

Standard errors per plot (10 d.f.): Grain, 3.35 cwt. per acre
or 17.1%
Straw, 3.00 cwt. per acre
or 7.20%

48/0a/5.2

	Seed Untreated	Seed inoculated (wet method)	Seed wetted not inoculated	Mean
Grain: cwt. per acre				
Mean (± 1.37)	19.8	18.5	20.5	19.6
Sulphate of Ammonia:				
Absent (± 1.93)	16.5	17.2	17.8	17.2
Present	23.2	19.8	23.1	22.0
Response (± 2.74)	6.7	2.6	5.3	4.8 (± 1.58)
Straw: cwt. per acre				
Mean (± 1.22)	41.3	41.3	42.3	41.6
Sulphate of Ammonia:				
Absent (± 1.73)	38.4	38.6	38.7	38.6
Present	44.2	44.1	45.8	44.7
Response (± 2.45)	5.8	5.5	7.1	6.1 (± 1.41)