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Yields of the Field Experiments 1959

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59/R/CA/4 and 59/W/CA/4 Spring Wheat - Combine Drilling of N

Rothamsted Research

Rothamsted Research (1960) *59/R/CA/4 and 59/W/CA/4 Spring Wheat - Combine Drilling of N* ;
Yields Of The Field Experiments 1959, pp 73 - 74 - DOI: <https://doi.org/10.23637/ERADOC-1-179>

59/Ca/4.2

Summary of Results

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

None	N: cwt per acre						Mean
	Broadcast			Combine drilled			
	0.2	0.5	0.8	0.2	0.5	0.8	
Deacons Field, Rothamsted							
13.1	18.8	25.5	29.7 (±0.45)	20.0	26.3	31.2	23.5
Mean dry matter % as harvested: 86.5							
Lansome Field, Woburn							
9.9	19.3	25.9	28.3 (±0.65)	19.4	24.8	27.5	22.2
Mean dry matter % as harvested: 85.9							

59/Ca/5.1

WHEAT

Times of sowing and forms of N - Roadpiece Woburn 1959.

Design: 4 randomized blocks of 5 plots each with 2 blocks sown in winter and 2 in spring.

Area of each plot: 0.0289 acres. Area harvested: 0.0129 acres.

Treatments:

Blocks. Time of sowing: Autumn; spring.

Plots. Fertilizers: None and all combinations of:-

Forms of nitrogen: Calcium nitrate; sulphate of ammonia, each at 100 lb N per acre.

Times of application of N: In autumn; in spring.

Basal dressing: 5 cwt compound fertilizer (10% P_2O_5 , 20% K_2O) per acre broadcast.

Cultivations, etc.: Ploughed: Oct 17, 1958. Autumn nitrogen applied: Oct 23. Compound fertilizer applied to all plots, winter wheat drilled at 3 bushels per acre: Oct 24. Spring wheat drilled at 3 bushels per acre: Mar 17, 1959. Spring nitrogen applied: Mar 20. Sprayed with TCB/MCPA at 4 pints in 40 gallons per acre - winter wheat: Apr 29; spring wheat: May 11. Combine harvested: Aug 17. Varieties: Winter wheat - Cappelle; spring wheat - Peko. Previous crop: Potatoes.

Standard error per plot.

Grain (at 85% dry matter): 2.88 cwt per acre or 18.3% (8 d.f.)

Note. The mineral content of the soil and the total nitrogen content of the plants were determined at various stages of growth.