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Yields of the Field Experiments 1959



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59/R/CA/3 Spring Wheat - Row Spacing, Seed Rates and N

Rothamsted Research

Rothamsted Research (1960) *59/R/CA/3 Spring Wheat - Row Spacing, Seed Rates and N*; Yields Of The Field Experiments 1959, pp 71 - 72 **- DOI: https://doi.org/10.23637/ERADOC-1-179**

59/Ca/3.2

Summary of Results

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

Row spacing: inches Seed rate: bushels per acre		7	7	14	14	7B	
		2	4	1	2	3	Mean
Mean (±0.68)		33.0	33.6	29.9	30.0	31.8	31.7
Drill Standard Precision	(±0.95)	33.1 33.0	32.7 34.5	29.6 30.3	27.7 32.4	33·1 30·5	31.2 32.1
Difference	(±1.35)	-0.1	+1.8	+0.7	+4.7	-2.6	±0.9 (±0.60)
N cwt per a	<u>cre</u> (±1.16)*	31.2 34.9	31.7 35.5	29.0 30.8	29.6 30.5	31.9 31.7	30.7 32.7
Difference	(±1.90)	+3.7	+3.8	+1.8	+0.9	-0.2	+2.0 (±0.85)

!	Dr		
	Standard	Precision	Difference
	(±0	(±1.04)	
N cwt per acre	30.6 31.9	30 • 7 33 • 5	+0.1 +1.6
Difference (±1.20)	+1.3	+2:8	+1.5 (±1.69)

^{*}For use only in horizontal and diagonal comparisons.

**

For use only in diagonal comparisons.

B = every 4th row blank.

59/Ca/4.1

SPRING WHEAT

Combine drilling of nitrogen - Rothamsted (R) Deacons Field and Woburn (W) Lansome Field 1959.

Design (each field): 4 randomized blocks of 7 plots each.

Area of each plot:

Deacons Field (R): 0.0212 acres.

Lansome Field (W): 0.0186 acres.

Area harvested: 0.0124 acres.

Area harvested: 0.0124 acres.

Treatments: None and all combinations of:Nitrogen: 0.2; 0.5; 0.8 cwt N per acre.
Method of application: Broadcast as sulphate of ammonia; combine
drilled as compound fertilizer:

 N_1 : 6% N, 15% P_2O_5 , 15% K_2O_5 N_2 : 8% N, 8% P_2O_5 , 8% K_2O_5 N_3 : 12% N, 9% P_2O_5 , 9% K_2O_5

Basal dressing per acre (each field): 0.54 cwt P205 and 0.54 cwt K20 combine drilled

(a) as compound 16% P205, 16% K20 on the no nitrogen and broadcast nitrogen plots;

(b) as compounds N₁, N₂, N₃ on the plots receiving drilled nitrogen.

Cultivations, etc.:

Deacons Field (R): Ploughed: Nov 17, 1958. Seed combine drilled at 3 bushels per acre; balance of compound fertilizer (16% P₂O₅, 16% K₂O) and sulphate of ammonia applied: Mar 19, 1959. Sprayed with TCB/MCPA at 4 pints in 40 gallons per acre: May 6. Combine harvested: Aug 21. Variety: Koga II. Previous crop: Winter wheat.

Lansome Field (W): Ploughed: Nov 5, 1958. Seed combine drilled at 3\frac{1}{3} bushels per acre: Mar 21, 1959. Sulphate of ammonia applied: Mar 23. Combine harvested: Aug 21. Variety: Peko. Previous crop: Spring Wheat.

Standard errors per plot, Grain (at 85% dry matter):
Deacons Field (R): 0.90 cwt per acre or 3.8% (18 d.f.)
Lansome Field (W): 1.31 cwt per acre or 5.9% (18 d.f.)

Note: Plant counts at germination were made.