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Yields of the Field Experiments 1959



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59/W/CA/5 Wheat - Time of Sowing, Forms of N

Rothamsted Research

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59/Ca/5.2

Summary of Results

	N: fertilizer applied							
Time of sowing	None	Aut C	umn S	C Spi	ring S	Mean		
	Grain (a	t 85% dry	matter): c	wt per acr	<u>ce</u>			
			(±2.04)	*				
Winter Spring	11.5 13.7	16.7 10.8	20 • 4 13 • 2	19•4 15•4	24.8 11.5	18.6 12.9		
Mean (±1.44)	12.6	13.8	16.8	17.4	18.1	15.7		
Diff.(±2.88)	+2.2	-5.9	-7.2	-4.0	-13.3	-5.7		

^{*}For use in horizontal comparisons only.

**

For use only in testing the difference of two differences.

Mean dry matter % as harvested: 86.2

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

Winter	10.3	12.3	18.7	23.4	24•1	17.7
Spring		12.3	16.0	26.9	22•1	18.1
Mean	11.8	12.3	17.3	25•1	23.1	17.9
Diff.	+3.0		-2.7	+3•5	-2.0	+0.4

Mean dry matter % as harvested: 76.3

C = 100 lb N per acre as calcium nitrate

S = 100 lb N per acre as sulphate of ammonia.

59/Cb/1.1

BARLEY

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

Design: 4 randomized blocks of 7 plots each.

Area of each plot:

Deacons Field (R): 0.0212 acres. Area harvested: 0.0141 acres. Lansome Field (W): 0.0186 acres. Area harvested: 0.0124 acres.

Treatments: None and all combinations of:Nitrogen: 0.2; 0.5; 0.8 (0.7 - Lansome Field) cwt N per acre.
Methods of application: Broadcast as sulphate of ammonia; combine drilled as compound fertilizer:

 N_1 : 6% N; 15% P_2O_5 ; 15% K_2O_6 N_2 : 8% N; 8% P_2O_5 ; 8% K_2O_6 N_3 : 12% N; 9% P_2O_5 ; 9% K_2O_6

Basal dressing per acre: -

Deacons Field (R): 0.57 cwt P₂0₅ and 0.57 cwt K₂0 Lansome Field (W): 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 17-24, 1958. Seed combine drilled at 2 bushels per acre: Mar 19, 1959. Sulphate of ammonia and balance of compound fertilizer (16% P₂O₅, 16% K₂O) broadcast: Mar 20. Sprayed with TCB/MCPA at 4 pints in 40 gallons per acre: May 6. Combine harvested: Aug 6. Variety: Proctor. Previous crop: Winter wheat.

Lansome Field (W): Ploughed: Nov 5, 1958. Seed combine drilled at 3 bushels per acre: Mar 20, 1959. Sulphate of ammonia broadcast: Mar 23. Combine harvested: Aug 17. Variety: Herta. Previous crop: Barley.

Standard errors per plot, Grain (at 85% dry matter):
Deacons Field (R): 1.69 cwt per acre or 6.0% (18 d.f.)
Lansome Field (W): 1.70 cwt per acre or 6.4% (18 d.f.)

Note: Plant counts at germination were made.