ROTHAMSTED RESEARCH

Yields of the Field Experiments 1959

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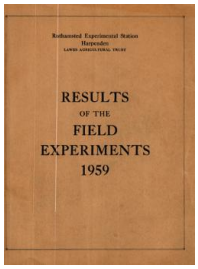

59/R/CB/2 and 59/W/CB/2 Barley - Concentrated Fertilizers

Rothamsted Research

Rothamsted Research (1960) *59/R/CB/2 and 59/W/CB/2 Barley - Concentrated Fertilizers ;* Yields Of The Field Experiments 1959, pp 79 - 80 **- DOI: https://doi.org/10.23637/ERADOC-1-179**

59/Cb/2.2

Summary of Results

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

	Compound fertilizer				
None	A_1	A_2	B_1	B_2	Mean
		Deacons Field, Rothamsted			
14.4	27.6	37.7 (±0.75)	27.6	37.5	29.0

Mean dry matter % as harvested: 84.2

		Lansome Field, Woburn			
13.8	24.9	30.8 (±0.68)	24.4	33.0	25.3

Mean dry matter % as harvested: 86.2

Compound fertilizers: (A) 12% N; 6% P_2O_5; 6% K_2O;
(B) 20% N; 10% P_2O_5; 10% K_2O.

Rates of application in cwt per acre:
Deacons Field (R): (1) 0.3 N; 0.15 P_2O_5; 0.15 K_2O;
(2) 0.6 N; 0.30 P_2O_5; 0.30 K_2O.
Lansome Field (W): (1) 0.35 N; 0.18 P_2O_5; 0.18 K_2O;
(2) 0.66 N; 0.33 P_2O_5; 0.33 K_2O.

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59/Cc/1

SPRING OATS

Varieties and levels of nitrogen - Little Knott I 1959.

Design: 3 randomized blocks of 5 plots each, plots being split into 2 for the application of nitrogen.

Area of each sub plot: 0.0151 acres. Area harvested: 0.0101 acres.

Treatments: All combinations of:-
Whole plots. Varieties: Condor (1); Palu (2); Silva II (3); Sun II (4); Vollbringer (5).
Sub plots. Nitrogen (in addition to basal): None; 0.36 cwt N per acre applied as sulphate of ammonia.

Basal dressing: 3 cwt compound fertilizer (12% N, 9% P_2O_5, 9% K_2O) per acre combine drilled with seed.

Cultivations, etc.: Ploughed: Jan 8, 1959. Seed combine drilled at $3\frac{1}{2}$ bushels per acre: Mar 14. Sulphate of ammonia applied: Mar 23. Sprayed with CMPP at 4 pints in 40 gallons per acre: May 12. Combine harvested: Aug 5. Previous crop: Beans.

Standard errors per plot, Grain (at 85% dry matter):
Whole plot: 1.51 cwt per acre or 3.6% (8 d.f.)
Sub plot: 2.50 cwt per acre or 5.9% (10 d.f.)

Summary of Results

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

N: cwt per acre (including basal)	Variety 1	2	3	4	5	Mean
			(±1.34)*			
0.36	43.3	38.7	39.3	41.8	42.6	41.1
0.72	45.1	43.6	38.7	44.7	42.5	42.9
Mean (±0.88)	44.2	41.1	39.0	43.2	42.6	42.0
Difference (±2.04)	+1.8	+4.9	-0.6	+2.9	-0.1	+1.8 (±0.91)

*for use in horizontal and diagonal comparisons only.

Mean dry matter % as harvested: 81.0

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