

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1959

[Full Table of Content](#)



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

None	Compound fertilizer				Mean
	A ₁	A ₂	B ₁	B ₂	

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% P₂O₅; 6% K₂O;
(B) 20% N; 10% P₂O₅; 10% K₂O.

Rates of application in cwt per acre:

Deacons Field (R): (1) 0.3 N; 0.15 P₂O₅; 0.15 K₂O;
(2) 0.6 N; 0.30 P₂O₅; 0.30 K₂O.
Lansome Field (W): (1) 0.35 N; 0.18 P₂O₅; 0.18 K₂O;
(2) 0.66 N; 0.33 P₂O₅; 0.33 K₂O.

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% P₂O₅, 9% K₂O) per acre combine drilled with seed.

Cultivations, etc.: Ploughed: Jan 8, 1959. Seed combine drilled at 3½ 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)	1	2	Variety 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