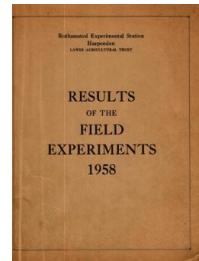


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Yields of the Field Experiments 1958

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58/W/CB/6 Barley - K and Residual N Fertilizers

Rothamsted Research

Rothamsted Research (1959) *58/W/CB/6 Barley - K and Residual N Fertilizers ; Yields Of The Field Experiments 1958*, pp 99 - 100 - DOI: <https://doi.org/10.23637/ERADOC-1-181>

58/Cb/6.1

BARLEY

Residual effects of nitrogenous fertilizers and direct effect of potash
- Long Hoos I, II and III 1958.

Design: 4 randomized blocks of 16 plots each, plots being split into 2
for the application of potash.

Area of each sub plot: 0.0038 acres. Area harvested: 0.0032 acres.

Treatments: All combinations of:-

Applied to ryegrass. (whole plots):

None (2 plots per block) together with all combinations of:-

Materials and methods of application

Applied in 1 single dressing:

Formalized casein, 12.2% N in 1956

" " 12.2% N in 1957

Casein, 12.6% N in 1956 and 1957

Applied in 4 dressings of one quarter the single rate:

Ammonium sulphate, 21.0% N in 1957

" " 21.0% N in 1956 and 1957

Urea, 43.5% N in 1956 and 1957

Calcium nitrate, 15.5% N in 1956 and 1957

Rates of application

0.75; 1.5 cwt N per acre

Applied to barley (1958). (sub plots):

K: None; 1.0 cwt K₂O per acre as muriate of potash.

Basal dressing: 3 cwt compound fertilizer (9% N, 18% P₂O₅) per acre
combine drilled with seed.

Cultivations, etc.: Ploughed: Nov 28, 1957. Seed combine drilled at
 $2\frac{1}{2}$ bushels per acre, muriate of potash applied: Mar 22, 1958.

Sprayed with MCPA at 5 pints in 40 gallons per acre: May 27.

Harvested: Aug 11. Variety: Proctor. Previous crop: Ryegrass.

Standard errors per plot. Grain (at 85% dry matter):

Whole plot: 2.10 cwt per acre or 7.8% (46 d.f.)

Sub plot: 1.76 cwt per acre or 6.6% (49 d.f.)

