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Yields of the Field Experiments 1961

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61/R/DB/2 Barley - Levels and Application of P

Rothamsted Research

Rothamsted Research (1962) *61/R/DB/2 Barley - Levels and Application of P* ; Yields Of The Field Experiments 1961, pp 117 - 117 - DOI: <https://doi.org/10.23637/ERADOC-1-182>

61/Db/2

BARLEY

Levels and methods of application of superphosphate - Sawyers III 1961.

Design: 3 randomised blocks of 14 plots each.

Area of each plot: 0.0146 acres.

Treatments: No superphosphate (2 plots per block) and all combinations of:-

Superphosphate: 0.25; 0.50; 0.75 cwt per acre P_2O_5 as granular superphosphate (20.5% P_2O_5).

Methods of application: Machine broadcast (B); combine drilled (C); side band placed (P); restricted broadcasting* (R).

* i.e. fertiliser surface applied in a band 2" wide immediately above each row of seed.

Basal dressing: 4 cwt compound fertiliser (16% N, 16% K_2O) per acre.

Cultivations, etc.: Ploughed: Nov 28, 1960. Rotary cultivated: Mar 17 and Mar 30 - Apr 12, 1961. Seed drilled at $2\frac{1}{2}$ bushels per acre, fertilisers applied: Apr 14 - 17. Sprayed with CMFP at 6 pints in 40 gallons per acre: May 18. Combine harvested: Aug 22. Variety: Proctor. Previous crop: 6 year grass ley.

Standard error per plot.

Grain (at 85% dry matter): 1.04 cwt per acre or 2.8% (25 d.f.)

Summary of Results

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

P ₂ O ₅ : cwt per acre	Method of application				Mean
	B	C	P	R	
	(±0.60)				(±0.30)
0.25	36.4	38.2	38.1	36.7	37.4
0.50	36.9	37.2	38.2	36.4	37.2
0.75	36.8	37.8	38.2	38.6	37.9
Mean (±0.35)	36.7	37.7	38.2	37.2	37.4 (±0.17)
No P ₂ O ₅ :	34.0 (±0.42)				
General mean : 36.9					

Mean dry matter % as harvested (all plots): 83.8