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Yields of the Field Experiments 1966

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66/R/BQ/C/18 Previous Crops and N for Barley 1965-66 - Barley

Rothamsted Research

Rothamsted Research (1967) *66/R/BQ/C/18 Previous Crops and N for Barley 1965-66 - Barley* ;
Yields Of The Field Experiments 1966, pp 185 - 187 - DOI:

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66/c/18.3

GRAIN

	R0				R2				R4			
	NO	N1	N2	NO	N1	N2	NO	N1	N2	NO	N1	N2
	(1) and (2)											
W	10.5	22.7	33.3	16.1	25.7	37.2	21.8	35.1	38.3			
K	22.0	32.8	34.6	21.0	31.9	42.7	21.9	36.3	43.5			
G	9.1	22.9	31.9	8.7	28.8	34.1	17.7	26.0	39.1			

(1) (± 2.27) For use in comparisons involving different combinations of Crop and R

(2) (± 1.77) For use in comparisons involving the same combinations of Crop and R

Mean D.M. %: 85.6

66/c/19.1

PREVIOUS CROPS & N FOR BARLEY

(BY)

The effect of previous cropping and nitrogen on the yield of barley - Fosters Corner 1966, the 1st year.

Crops in 1966: Spring wheat, kale and ryegrass.

Design: 3 randomised blocks of 9 plots.

Area of each plot: 0.0321. Area harvested: Spring wheat - 0.0214, kale - 0.0161, ryegrass - 0.0069.

Treatments applied in 1966: All combinations of:-

1. Cropping: Spring wheat (W), kale (K), Italian ryegrass (G).
2. Nitrogen: None (NO), 1.0 (N2), 2.0 cwt (N4) N as 'Nitro-Chalk'.

NOTE: Barley 1967 will test in addition:-

3. Nitrogen: None (NO), 0.5 (N1), 1.0 cwt (N2) N as 'Nitro-Chalk'.

Basal applications: 9 cwt compound (0:20:20). Weedkiller: To wheat: Mecoprop/2,4-D (Methoxone Extra at 6 pints in 30 gals).

Cultivations, etc.: Ploughed: Nov 16, 1965. Basal PK applied: Mar 9, 1966. 'Nitro-Chalk' applied: Mar 16.

Spring wheat: Seed drilled at 170 lb: Mar 16. Weedkiller applied: May 16. Combine harvested: Sept 3. Variety: Kloka.

Kale: Seed drilled at 1.5 lb: Apr 29, 1966. Harvested: Nov 8. Variety: Thousand Head.

Ryegrass: Seed drilled at 40 lb: Mar 18, 1966. Cut 3 times: June 30, Aug 18, Oct 12. Variety: S22 Italian.

Previous crops: Kale and potatoes 1964, barley 1965.

NOTE: Samples were taken from each crop at harvest for estimation of N percentage. Soil samples were taken on Mar 16 for estimation of mineralisable N and pH.

Standard errors per plot.

Spring wheat, Dry matter: 1.69 or 3.9% (4 d.f.)

Kale, Fresh weight: 2.590 or 10.8% (4 d.f.)

Ryegrass, Dry matter, 1st cut: 2.99 or 11.1% (4 d.f.)

2nd cut: 1.93 or 7.7% (4 d.f.)

3rd cut: 0.58 or 6.2% (4 d.f.)

Total of 3 cuts: 4.35 or 7.1% (4 d.f.)