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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

6/11/12

1900 2000 3000

(S) (10"10) 100 200 300 400 500 600 700 800 900 1000

(T) (15"15) 150 225 300 375 450 525 600 675 750 825 900

1	2	3	4	5	6	7	8	9	10
100	200	300	400	500	600	700	800	900	1000
150	225	300	375	450	525	600	675	750	825

(17) 1000 (S)

(10)	(15)	(20)	(25)	(30)	(35)	(40)	(45)	(50)	(55)	(60)
100	150	200	250	300	350	400	450	500	550	600

1000

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.)