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Yields of the Field Experiments 1962

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62/R/C/4 Straw and Ryegrass Green Manure - Barley (Test Crop)

Rothamsted Research

Rothamsted Research (1963) *62/R/C/4 Straw and Ryegrass Green Manure - Barley (Test Crop)* ;
Yields Of The Field Experiments 1962, pp 107 - 108 - DOI:
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62/C/4.1

BARLEY

Effects of green manures, N and straw - Stackyard 1962, the 3rd year.

Design: 2 replicates of a $3 \times 3 \times 3$ in 6 randomised blocks of 9 plots each, certain high order interactions being confounded with block differences.

Area of each plot: 0.0212 acres. Area harvested: 0.0140 acres.

Treatments. All combinations of:-

Nitrogen to barley 1962: None; 0.3; 0.6 cwt N per acre applied as 'Nitro-Chalk'.

Nitrogen to barley 1960 and 1961: None; 0.3; 0.6 cwt N per acre applied as 'Nitro-Chalk'.

Green manures and straw: None; ryegrass undersown 1960 and 1961; ryegrass undersown 1960 and 1961 plus straw left on the plot after harvest 1960 and 1961. (0; R; RS)

Basal dressing: 2 cwt compound fertiliser (20% P_2O_5 , 20% K_2O) per acre combine drilled.

Cultivations, etc.: Straw spread on "S" plots: 21 Aug, 1961. All plots ploughed: 14 Dec. 'Nitro-Chalk' applied: 21 Feb, 1962. Seed combine drilled at $2\frac{1}{2}$ bushels per acre with basal fertiliser: 22 Feb. Sprayed with 2,4-DP/MCPA at 8 pints in 40 gallons per acre: 24 May. Combine harvested: 27 Aug. Variety: Proctor.

Note: (1) For the previous years' results see "Results of the Field Experiments" 60/Cb/2 and 61/C/4.

(2) Samples were taken for the estimation of the incidence of Take-all (Ophiobolus graminus)

Standard error per plot.

Grain (at 85% dry matter): 1.40 cwt per acre or 4.5% (22 d.f.)

Erratum to "Numerical Results of Field Experiments" 1961 page 61/C/4.1.

The area of each plot should be 0.0212 acres and not 0.0114 as given.

62/C/4.2

Summary of Results

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

Green manure and straw 1960 & 1961	N: cwt per acre 1962			Green manure and straw 1960 & 1961			Mean
	None	0.3	0.6	0	R	RS	
	(±0.57)						
0	21.9	32.4	38.0				
R	22.5	32.7	37.9				
RS	22.3	31.9	38.4				
N: cwt per acre 1960 & 1961	(±0.57)			(±0.57)			(±0.33)
None	21.8	31.7	37.8	30.0	31.5	29.7	30.4
0.3	21.8	32.3	37.8	30.4	30.5	31.0	30.6
0.6	23.2	33.0	38.7	31.9	31.1	31.8	31.6
Mean (±0.33)	22.2	32.3	38.1	30.8	31.0	30.8	30.9

Mean dry matter % as harvested: 81.2

Green manure and straw

0 = None
R = Ryegrass
RS = Ryegrass and straw