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67/W/WGM/B/3 Green Manuring

Rothamsted Research

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67/B/3.1

GREEN MANURING EXPERIMENT

(WGM)

Woburn Stackyard 1967 (Lower half only).

For history, treatments, etc., see 'Details' 1962 and 'Results' 64/B/3, 65/B/3 and 66/B/3.

Area of each sub plot: 0.0223. Area harvested: 0.0144.

Treatments: All combinations of:-

Whole plots: A plots (no previous green manures): Green manures undersown 1966: Trefoil (T), ryegrass (R).

B plots (green manures 1936-63): Green manures undersown 1966: None (O), trefoil (T), ryegrass (R).

C plots (green manures 1936-65): No green manures 1966.

Half plots: Levels of nitrogen: 0.3 (N1), 0.6 (N2), 0.9 (N3), 1.2 cwt N (N4) as 'Nitro-Chalk'.

Cultivations, etc.: Fallow plots ploughed: Oct 22, Dec 5-14, 1966.

All plots ploughed: Feb 2-3, 1967. Seed combine drilled at 140 lb: Mar 4. 'Nitro-Chalk' applied: Mar 16. Sprayed with ioxynil/mecoprop (Actril C at 5 pints in 25 gals): May 9. Sprayed with ioxynil/mecoprop (Actril C at 5 pints in 25 gals): May 31. (The second application was made because the first had little effect). Combine harvested: Aug 21. Variety: Maris Badger.

NOTE: Estimates of take-all (*Ophiobolus graminis*) were made in July.

67/B/3.2

SUMMARY OF RESULTS

GRAIN					
	N1	N2	N3	N4	Mean
A PLOTS					
T	29.2	34.7	37.6	35.9	34.3
R	18.8	22.4	33.1	31.2	26.4
Mean	24.0	28.5	35.4	33.5	30.4
B PLOTS					
O	15.4	22.5	29.0	28.0	23.8
T	29.4	35.8	33.2	31.2	32.4
R	23.2	29.6	29.9	37.4	30.0
Mean	22.7	29.3	30.7	32.2	28.7
C PLOTS					
T	16.8	24.9	29.7	30.4	25.4
R	17.6	26.4	32.7	30.0	26.7
Mean	17.2	25.6	31.2	30.2	26.1

Mean D.M. %: 86.5