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Yields of the Field Experiments 1964



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64/W/WAU/C/17 *Trefoil* and Ryegrass Green Manures - Barley

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64/C/17.1

BARLEY AFTER GREEN MANURES

(WAU)

Effects of trefoil and ryegrass green manures, time of ploughing and N - Woburn Road Piece 1964 - barley following early potatoes.

Design: Single replicate of 4 x 2 x 4 in two blocks of 16 plots each, randomisation restricted.

Area of each plot: 0.0212. Area harvested: 0.0141.

Treatments. All combinations of:-

- 1. Green manures: None (0), trefoil (T), ryegrass (R), ryegrass sown with 0.6 cwt N as 'Nitro-Chalk' (RN).
- Time of ploughing: Nov 26, 1963 (A), Jan 30, 1964 (S).
 Nitrogen: None (NO), 0.3 (N1), 0.6 (N2), 0.9 (N3) cwt N as 'Nitro-Chalk'.

Basal dressing. Early potatoes: 8 cwt 17:11:22. Green manures: None. Barley: 2.5 cwt 0:20:20 combine drilled.

Cultivations, etc.: Ploughed: Sept 17 - Oct 17, 1962. Basal dressing applied for early potatoes: Apr 11, 1963. Potatoes planted: Apr 19. Earthed up: June 15. Haulm destroyed mechanically: July 23. Lifted: July 24 - Aug 2. Ground chalk applied to plots 1 - 16 at 60 cwt and to plots 17 - 32 at 20 cwt, 'Nitro-Chalk' applied to RN plots: Aug 2. Trefoil sown at 30 lb and ryegrass at 40 lb: Aug 3. A plots ploughed: Nov 26. S plots ploughed: Jan 30, 1964. 'Nitro-Chalk' treatments applied: Feb 25. Seed drilled at 2.75 bushels: Feb 28. Sprayed with mecoprop/2,4-D (Methoxone Extra at 6 pints in 40 gals): May 6. Combine harvested: Aug 21. Varieties: Trefoil - English, ryegrass - English Leafy Italian, early potatoes - Arran Pilot, barley - Maris Badger. Previous crops: Spring wheat 1961, barley 1962.

NOTE: (1) The green manures were sampled just before ploughing for estimates of dry matter and N per acre in roots plus tops.

(2) Yields were adjusted for a linear trend across the blocks and only the adjusted yields are presented.

Standard error per plot.

Barley. Grain 3.64 or 11.5% (7 d.f.)

64/C/17.2

SUMMARY OF RECULTS

GRAIN

| | NO | N1 | N2 | м3 | Mean |
|-------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| | dass spoig of to a (±1.29) | | | | aplique signia na |
| Mean | 22.4 | 29.3 | 35•3 | 39.8 | 31.7 |
| | (±2.58) | | | | (±1.29) |
| O T R RN | 16.7 27.0 19.8 26.0 | 20.0 34.8 26.6 36.0 | 30.2 40.9 30.4 39.7 | 35.7 44.2 35.3 43.9 | 25.7 36.7 28.0 36.4 |
| | (±1.82) | | | | (±0.91) |
| A S | 22.3 22.4 | 30.5 28.2 | 34•7 35•9 | 42.5 37.1 | 32.5 30.9 |
| | 0 | T | R | RN | |
| tel | (±1.82) | | | | |
| A S | 27•7 23•6 | 38.0 35.4 | 28.0 28.0 | 36.3 36.5 | |
| | | | | | |

Mean D.M. %: 84.2