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Yields of the Field Experiments 1965

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65/R/IB/C/2 Intensive Barley Growing - Cereals

Rothamsted Research

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65/C/2.1

INTENSIVE BARLEY GROWING EXPERIMENT

(IB)

Little Knott I - 1965, the fifth year

For treatments, etc., see 'Results' 61/C/8 (N0 = None, N1 = 0.3, N2 = 0.6, N3 = 0.9 cwt N).

Area of each plot: 0.0212. Area harvested: 0.0139.

Basal applications: Manures as 1964.

Insecticide: Spring beans: Menazon at 0.25 lb in 40 gals.

Weedkillers: Oats: MCPA at 1.12 lb plus dicamba at 0.8 lb in 40 gals. Barley: Mecoprop/2,4-D (Methoxone Extra at 6 pints in 40 gals). Winter wheat: Mecoprop/2,4-D (Methoxone Extra at 7 pints in 40 gals and at 6 pints in 40 gals).

Cultivations, etc.: Ploughed: Oct 13, 1964. All plots except winter wheat chisel ploughed: Dec 23.

Spring beans: Seed placement drilled at 200 lb (rows spaced at 10.5 ins): Feb 18, 1965. Sprayed: June 4. Combine harvested: Sept 29.

Oats: Seed combine drilled at 170 lb, 'Nitro-Chalk' applied: Mar 15, 1965. Sprayed: May 19. Combine harvested: Sept 29.

Spring wheat: Seed combine drilled at 190 lb: Mar 30, 1965. 'Nitro-Chalk' applied: Mar 31. Combine harvested: Sept 10.

Barley: 'Nitro-Chalk' applied: Mar 15, 1965. Seed combine drilled at 140 lb: Mar 29. Sprayed: May 11. Combine harvested: Sept 10.

Winter wheat: Seed combine drilled at 155 lb: Oct 23, 1964. 'Nitro-Chalk' applied: Mar 11, 1965. Sprayed twice: Apr 23 and May 13. Combine harvested: Sept 10.

- NOTES: (1) Yields were taken only for sequences 1, 2, 3, 6, 7, 8 and 9.
(2) Estimates of eyespot (*Cercospora herpotrichoides*) and take-all (*Ophiobolus graminis*) were made in spring and summer. 1000 corn weights were estimated on selected barley plots.
(3) For details of the previous years' results see 'Results' 61/C/8, 62/C/7, 63/C/2 and 64/C/2.

Standard errors per plot. Grain:

Spring wheat (6 and 8): 3.67 or 10.8% (9 d.f.)

Barley (1,2,3,7): 2.82 or 7.5% (15 d.f.)

65/c/2.2

SUMMARY OF RESULTS

GRAIN

WINTER WHEAT 9

| Crop in 1961 Crop in 1962 Crop in 1963 Crop in 1964 | SW WW WW WW | | | | Mean |
|--|----------------------|------|------|------|------|
| | NO | N1 | N2 | N3 | |
| | 22.1 | 20.6 | 26.5 | 32.4 | 25.4 |

Mean D.M. %: 72.3

SPRING WHEAT 6 AND 8

| Crop in 1961 Crop in 1962 Crop in 1963 Crop in 1964 | SW SW SW SW | | | | SW SW Be O N2 | Mean |
|--|----------------------|---------|------|------|---------------------------|------|
| | NO | N1 | N2 | N3 | | |
| | 25.8 | 27.3 | 34.9 | 34.3 | 37.2 | 33.9 |
| | | (±2.59) | | | (±1.30) | |

Mean D.M. %: 69.6

BARLEY 1,2,3 AND 7

| Crop in 61 62 63 64 | NO | N1 | N2 | N3 | Mean |
|------------------------|------|------|---------|------|---------|
| | | | (±1.99) | | (±1.00) |
| O Be B B | 24.5 | 39.7 | 37.4 | 37.5 | 34.8 |
| SW O Be B | 37.0 | 42.3 | 42.6 | 38.7 | 40.1 |
| O SW O Be | 41.0 | 46.2 | 38.8 | 35.9 | 40.5 |
| B B B B | 27.4 | 36.9 | 40.3 | 37.7 | 35.6 |
| Mean (±1.00) | 32.5 | 41.3 | 39.8 | 37.5 | 37.7 |

Mean D.M. %: 71.8