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Numerical Results of the Field Experiments 1968

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68/C/2 Intensive Barley Growing Experiment - S. Wheat, Barley, Fallow

Rothamsted Research

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68/c/2.1

INTENSIVE BARLEY GROWING EXPERIMENT

(IB)

Little Knott I - 1968, the eighth year

For treatments, etc., see 'Results' 61/C/8 (NO = None, N1 = 0.3, N2 = 0.6, N3 = 0.9 cwt N).

Area of each plot: 0.0212. Area harvested: Spring wheat - 0.0188, barley - 0.0139.

Winter wheat, sequence 9: These plots were fallowed in 1968 because of Blackgrass (*Alopecurus myosuroides*) and Couchgrass (*Agropyron repens*).

Basal applications: Manures as previously.

Weedkillers: All plots: Aminotriazole at 4 lb and ammonium thiocyanate at 3.7 lb in 32 gals. Spring wheat and barley: Ioxynil at 7.5 oz and mecoprop at 22.5 oz in 20 gals.

Cultivations, etc.: - Aminotriazole etc. applied: 21 Sept, 1967.

Ploughed: 30 Oct.

Spring wheat: Seed combine drilled at 175 lb: 6 Mar, 1968.

'Nitro-Chalk' applied: 20 Mar. Weedkiller applied: 6 May.

Combine harvested: 24 Aug.

Barley: Seed combine drilled at 140 lb: 6 Mar, 1968. 'Nitro-Chalk' applied: 20 Mar. Weedkiller applied: 6 May. Combine harvested: 20 Aug.

Fallow plots: Rotary cultivated 4 times: 12 Apr, 29 May, 18 June, 6 Aug, 1968.

- NOTES: (1) Yields were taken for all sequences except 9 (fallow).
(2) Estimates of eyespot (*Cercospora herpotrichoides*) and take-all (*Ophiobolus graminis*) were made in spring and summer.
(3) For previous years' results see 'Results' 61/C/8, 62/C/7, 63/C/2, 64/C/2, 65/C/2, 66/C/2, 67/C/2.

Standard errors per plot.

Barley, Grain: 2.86 or 9.6% (31 d.f.)

68/c/2.2

SUMMARY OF RESULTS

SPRING WHEAT (8)

CROP 1961 - 1967 SW

| GRAIN | | | | |
|-------|------|------|------|------|
| NO | N1 | N2 | N3 | Mean |
| 11.4 | 13.8 | 20.3 | 19.9 | 16.3 |

Mean D.M. %: 82.1

BARLEY (1 - 7 & 10)

| CROP IN | | | | | | | | GRAIN | | | | |
|--------------|----|----|----|----|----|----|--|---------|------|------|------|---------|
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | | NO | N1 | N2 | N3 | Mean |
| | | | | | | | | (±2.02) | | | | (±1.01) |
| O | Be | B | B | B | B | B | | 12.8 | 27.1 | 33.1 | 35.2 | 27.1 |
| SW | O | Be | B | B | B | B | | 16.4 | 24.2 | 32.5 | 35.1 | 27.1 |
| O | SW | O | Be | B | B | B | | 15.3 | 25.1 | 30.5 | 34.3 | 26.3 |
| Be | O | SW | O | Be | B | B | | 14.0 | 27.3 | 31.5 | 35.4 | 27.0 |
| SW | Be | O | SW | O | Be | B | | 26.9 | 29.7 | 34.0 | 36.2 | 31.7 |
| SW | SW | Be | O | SW | O | Be | | 30.3 | 36.3 | 38.6 | 35.9 | 35.3 |
| B | B | B | B | B | B | B | | 15.0 | 28.0 | 35.9 | 36.6 | 28.9 |
| Be | WW | P | B | Be | WW | P | | 32.2 | 35.9 | 35.5 | 34.4 | 34.5 |
| Mean (±0.71) | | | | | | | | 20.4 | 29.2 | 33.9 | 35.4 | 29.7 |

Mean D.M. %: 82.7