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

Rothamsted Research

Rothamsted Research (1966) *65/R/IB/C/2 Intensive Barley Growing - Cereals ; Yields Of The Field Experiments 1965*, pp 127 - 128 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

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	NO	N1	N2	N3	Mean
Crop in 1962					
Crop in 1963					
Crop in 1964					
	22.1	20.6	26.5	32.4	25.4

Mean D.M. %: 72.3

SPRING WHEAT 6 AND 8

Crop in 1961	NO	N1	N2	N3	SW SW Be O N2	Mean
Crop in 1962						
Crop in 1963						
Crop in 1964						
	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