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

Rothamsted Research

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67/C/2.1

INTENSIVE BARLEY GROWING EXPERIMENT

(IB)

Little Knott I - 1967, the seventh 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 - 0.0140, barley - 0.0139.

Basal applications: 9 cwt (13:13:20) to potatoes, otherwise manures as previously.

Weedkillers: All crops: Aminotriazole at 4 lb and ammonium thiocyanate at 3.7 lb in 40 gals. Winter wheat: Ioxynil/mecoprop (Atril C at 6 pints in 32 gals). Oats, spring wheat and barley: Ioxynil/mecoprop (Atril C at 5 pints in 20 gals).

Insecticide: Spring beans: Demeton-s-methyl (Metasystox at 12 fluid oz in 37 gals, and at 15 fluid oz in 37 gals by hand).

Fungicide: Potatoes: Mancozeb at 1.2 lb in 30 gals on three occasions.

Cultivations, etc.: Aminotriazole etc. applied: Sept 17, 1966.

Ploughed: Oct 14 - 21.

Spring beans: Seed placement drilled at 200 lb: Mar 8, 1967.

Insecticide applied: June 13 and July 7. Combine harvested: Sept 1. Variety: Tarvin.

Spring wheat: Seed combine drilled at 175 lb: Mar 4, 1967.

'Nitro-Chalk' applied: Mar 20. Weedkiller applied: May 12. Combine harvested: Aug 23.

Barley: Seed combine drilled at 140 lb: Mar 4, 1967. 'Nitro-Chalk' applied: Mar 20. Weedkiller applied: May 12. Combine harvested: Aug 17.

Winter wheat: Seed combine drilled at 155 lb: Oct 27, 1966.

'Nitro-Chalk' applied: Mar 20, 1967. Weedkiller applied: Apr 27. Cut and carted because of a severe infestation with Black grass (*Alopecurus myosuroides*): June 21.

Plots rotary cultivated three times: June 22, July 17, Aug 12.

Potatoes: Basal NPK applied: Apr 5, 1967. Rotary cultivated, potatoes machine planted: Apr 6. Fungicide applied: June 29, July 20, Aug 4. Lifted: Sept 12.

67/C/2.2

- NOTES: (1) Yields were taken only for sequences 1, 2, 3, 4, 5, 7 (Barley), and 8 (Spring wheat).
(2) Estimates of eyespot (*Cercospora herpotrichoides*) and take-all (*Ophiobolus graminis*) were made in spring and summer.
(3) For the previous years' results see 'Results' 61/C/8, 62/C/7, 63/C/2, 64/C/2, 65/C/2, 66/C/2.

Standard error per plot.

Barley, grain: 4.03 or 11.4% (23 d.f.)

67/C/2.3

SUMMARY OF RESULTS

SPRING WHEAT (8)

Crop in	SW				
61	SW				
62	SW				
63	SW				
64	SW				
65	SW				
66	SW				
	NO	N1	N2	N3	Mean
	18.2	23.2	34.9	39.1	28.9

Mean D.M. %: 81.3

BARLEY (1,2,3,4,5,7)

Crop in	NO	N1	N2	N3	Mean
61 62 63 64 65 66					
		(±2.85)			(±1.43)
O Be B B B B	14.2	35.6	40.3	46.3	34.1
SW O Be B B B	25.6	30.3	37.0	39.8	33.2
O SW O Be B B	17.8	27.6	35.5	43.2	31.0
Be O SW O Be B	18.1	40.6	43.3	45.5	36.9
SW Be O SW O Be	38.9	39.0	46.4	47.9	43.0
B B B B B B	20.2	32.5	41.9	44.1	34.7
Mean (±1.16)	22.5	34.3	40.7	44.5	35.5

Mean D.M. %: 79.0