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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 (Actril C at 6 pints in 32 gals). Oats, spring wheat and barley: Ioxynil/mecoprop (Actril 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					Mean
	NO	N1	N2	N3	
61					
62					
63					
64					
65					
66					
	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