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

Rothamsted Research

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64/C/2.1

INTENSIVE BARLEY GROWING EXPERIMENT

(IB)

Little Knott I - 1964, the fourth year

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

Area of each plot (acres): 0.0212. Area harvested: 0.0139.

Cultivations, etc.: Ploughed: Oct 7, 1963. All plots except winter wheat chisel ploughed: Dec 17.

Spring beans: Seed placement drilled at 200 lb (rows spaced at 10.5 ins): Feb 14, 1964. Combine harvested: Sept 2.

Oats: Seed combine drilled at 4 bushels: Mar 6, 1964. 'Nitro-Chalk' applied: Mar 9. Sprayed with MCPA/dichlorprop (Seritox at 8 pints in 40 gals): May 15. Combine harvested: Aug 22.

Spring wheat: Seed combine drilled at 3 bushels: Mar 11, 1964. 'Nitro-Chalk' applied: Mar 31. Sprayed with MCPA/dichlorprop (Seritox at 8 pints in 40 gals): May 15. Combine harvested: Aug 28.

Barley: Seed combine drilled at 2.5 bushels: Feb 13, 1964. 'Nitro-Chalk' applied: Feb 14. Sprayed with MCPA/dichlorprop (Seritox at 8 pints in 40 gals): May 15. Combine harvested: Aug 11.

Winter wheat: Seed combine drilled at 2.5 bushels: Oct 17, 1963. 'Nitro-Chalk' applied: Mar 5, 1964. Sprayed with mecoprop/2,4-D (Methoxone Extra at 7 pints in 40 gals): May 12. Combine harvested: Aug 26.

- NOTES: (1) Yields were taken only for sequences 1, 2, 5, 7, 8, 9 and 10.
(2) Estimates of eyespot (*Cercospora herpotrichoides*) and take-all (*Ophiobolus graminis*) were made in spring and summer and percentage area lodged was estimated.
(3) For details of the previous years' results see 'Results' 61/C/8, 62/C/7 and 63/C/2.

Standard errors per plot.	Grain:
Spring wheat (5 and 8):	2.70 or 8.3% (9 d.f.)
Barley (1,2,7 and 10):	3.52 or 9.1% (15 d.f.)

64/C/2.2

SUMMARY OF RESULTS

GRAIN

WINTER WHEAT 9

Crop in 1961 Crop in 1962 Crop in 1963	SW WW WW				Mean
	NO	N1	N2	N3	
	23.4	21.7	29.6	33.4	27.0

Mean D.M. %: 87.2

SPRING WHEAT 5 AND 8

Crop in 1961 Crop in 1962 Crop in 1963	SW SW SW				SW Be O	Mean
	NO	N1	N2	N3		
	16.0	22.8	32.9	32.4	38.7	32.4
		(±1.91)			(±0.95)	

Mean D.M. %: 83.8

BARLEY 1,2,7 AND 10

Crop in 1961 1962 1963			NO	N1	N2	N3	Mean
					(±2.49)		(±1.24)
B	B	B	18.5	27.6	29.5	34.2	27.4
O	Be	B	18.5	37.3	37.7	44.8	34.6
SW	O	Be	43.4	45.6	49.8	48.1	46.8
Be	WW	P	41.6	48.3	46.1	44.6	45.1
Mean (±1.24)			30.5	39.7	40.8	42.9	38.5

Mean D.M. %: 82.1