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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