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Yields of the Field Experiments 1963

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

Rothamsted Research

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63/c/2.1

INTENSIVE BARLEY GROWING EXPERIMENT

(IB)

Little Knott I - 1963, the third year

For treatments etc., see 'Numerical Results of the Field Experiments' 61/c/8.

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

Cultivations, etc.: Ploughed: Sept 26, 1962.

Spring beans: Seed placement drilled at 200 lb per acre:

Apr 9, 1963. Sprayed with demeton methyl at 6 fluid oz in 40 gallons per acre: June 14. Combine harvested: Oct 3.

Variety: Tick 30B.

Oats: Seed combine drilled at 4 bushels per acre: Apr 9, 1963.

'Nitro-Chalk' applied: Apr 18. Sprayed with TBA/MCPA at 4 pints in 40 gallons per acre: May 22. Combine harvested: Sept 9. Variety: Condor.

Spring wheat: Seed combine drilled at 3 bushels per acre:

Apr 11, 1963. 'Nitro-Chalk' applied: Apr 18. Sprayed with TBA/MCPA at 4 pints in 40 gallons per acre: May 22. Combine harvested: Sept 12. Variety: Jufy I.

Barley: Seed combine drilled at 2.5 bushels per acre: Apr 9, 1963.

'Nitro-Chalk' applied: Apr 18. Sprayed with TBA/MCPA at 4 pints in 40 gallons per acre: May 22. Combine harvested: Sept 9. Variety: Proctor.

Winter wheat: Seed combine drilled at 2.5 bushels per acre:

Oct 31, 1962. 'Nitro-Chalk' applied: Mar 13, 1963. Sprayed with TBA/MCPA at 4 pints in 40 gallons per acre: May 22.

Combine harvested: Sept 10. Variety: Cappelle.

Potatoes: Basal compound fertiliser applied: Apr 30, 1963. Potatoes

machine planted: May 6. Earthed up: June 26. Sprayed with undiluted BOV at 16 gallons per acre: Sept 14. Lifted: Sept 23.

Variety: Majestic.

Notes: (1) Yields were only taken for sequences 1, 4, 7, 8 and 9.

(2) For details of the previous years' results see 'Numerical Results of the Field Experiments' 61/c/8 and 62/c/7.

Standard errors per plot. Grain (at 85% dry matter)

Spring wheat (4 and 8): 1.37 cwt per acre or 4.2% (9 d.f.)

Barley (1 and 7): 2.05 cwt per acre or 5.8% (6 d.f.)

63/c/2.2

Summary of Results

Grain (at 85% dry matter): cwt per acre

Winter wheat 9

Crop in 1961 Crop in 1962	Spring wheat Winter wheat				Mean
	None	0.3	0.6	0.9	
N: cwt per acre	19.5	23.8	28.0	30.6	25.5

Mean dry matter % as harvested: 77.2

Spring wheat 4 and 8

Crop in 1961 Crop in 1962	Spring wheat Spring wheat				Beans Oats	Mean
	None	0.3	0.6	0.9	0.6	
N: cwt per acre	22.1	27.4	32.9	30.7	37.6	32.9

Mean dry matter % as harvested: 73.0

Barley 1 and 7

Crop in 1961 1962	N: cwt per acre				Mean
	None	0.3	0.6	0.9	
	(±1.45)				(±0.73)
Barley Barley	26.2	33.3	35.9	39.7	33.7
Oats Beans	35.0	41.8	40.5	33.1	37.6
Mean (±1.03)	30.6	37.5	38.2	36.4	35.6

Mean dry matter % as harvested: 73.2