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Yields of the Field Experiments 1966

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66/W/WCW/B/8 Cultivation-weedkiller Rotation

Rothamsted Research

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66/B/8.3

SUMMARY OF RESULTS

POTATOES

	M	X	Y	Mean
TOTAL TUBERS				
		(±1.862)		(±1.075)
P	16.92	20.25	19.11	18.76
R	17.57	16.46	18.52	17.52
T	17.45	17.87	16.19	17.17
Mean (±1.075)	17.31	18.19	17.94	17.81

% WARE

P	94.7	93.2	95.5	94.5
R	95.9	95.8	92.8	94.8
T	94.9	93.1	92.4	93.5
Mean	95.2	94.0	93.6	94.3

BARLEY

GRAIN

	N1	N2	N3	Mean
		(±2.31)		(±1.34)
P	21.2	27.8	34.4	27.8
R	17.9	30.4	34.2	27.5
T	24.1	31.1	35.4	30.2
Mean (±1.34)	21.1	29.7	34.7	28.5

Mean D.M. %: 83.3

STATEMENT OF REVENUES

REVENUES

Year	1917	1918	1919	Total
Oil	11.00	10.00	10.00	31.00
Gas	10.00	10.00	10.00	30.00
Coal	10.00	10.00	10.00	30.00
Other	10.00	10.00	10.00	30.00
Total	41.00	40.00	40.00	121.00

EXPENSES

Year	1917	1918	1919	Total
Operating	10.00	10.00	10.00	30.00
Administrative	10.00	10.00	10.00	30.00
Other	10.00	10.00	10.00	30.00
Total	30.00	30.00	30.00	90.00

Total Revenue: 121.00
Total Expense: 90.00
Net Income: 31.00

66/B/9.1

INTENSIVE CEREALS

(WIC)

Woburn Stackyard Classical Site 1966 - the first year

To investigate the growing of continuous winter wheat in comparison with a five course rotation, both with heavy dressings of fertilisers. There is a similar experiment involving spring barley.

These experiments are respectively, wheat on part of the site of the Continuous Wheat Experiment 1877 - 1954 and the barley on part of the site of the continuous barley. As well as crop yields, soil carbon and nitrogen will be studied, and the incidence of soil-borne diseases.

Design: For each cereal: 2 randomised blocks of 6 plots, split for N.

Area of each sub-plot: 0.0103. Area harvested: Wheat and barley - 0.0067, potatoes - 0.0069. Area of each whole plot: 0.0431. Area harvested: Ley - 0.0411.

Treatments: Wheat blocks: All combinations of:-

1. Whole plots: cropping:
Continuous wheat: Five course rotation, in all phases:
1 year ley, potatoes, wheat, wheat, wheat.
2. Sub-plots: Nitrogen to wheat:
0.5 (N1), 1.0 (N2), 1.5 (N3), 2.0 (N4) cwt N as 'Nitro-Chalk' as spring top-dressing.

Treatments: Barley blocks: All combinations of:-

1. Whole plots: cropping:
Continuous barley: Five course rotation, in all phases:
1 year ley, potatoes, barley, barley, barley.
2. Sub-plots: Nitrogen to barley:
0.4 (N1), 0.8 (N2), 1.2 (N3), 1.6 (N4) cwt N as 'Nitro-Chalk' applied in the seedbed.

Varieties: Potatoes: Pentland Dell
Wheat: Cappelle
Barley: Maris Badger
Ley: 1 lb English Italian ryegrass, 2 lb Danish Italian ryegrass, 1.5 lb English Broad Red clover, 0.5 lb Canadian Alsike Clover.
Mixture sown at 29 lb.

Other applications:

All crops: 1.0 cwt P2O5, 2.0 cwt K2O, half ploughed in, half worked into the seedbed.

Ley: 0.4 cwt N as 'Nitro-Chalk'.

Potatoes: 1.2 cwt N as 'Nitro-Chalk'.