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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 FINANCIAL POSITION

ASSETS

Year	2011	2010	2009	2008
Current Assets	100,000	120,000	150,000	180,000
Property, Plant, and Equipment	200,000	250,000	300,000	350,000
Intangible Assets	50,000	60,000	70,000	80,000
Other Assets	10,000	15,000	20,000	25,000
Total Assets	360,000	445,000	520,000	635,000
Liabilities	150,000	180,000	210,000	240,000
Equity	210,000	265,000	310,000	395,000

LIABILITIES AND EQUITY

Year	2011	2010	2009	2008
Current Liabilities	100,000	120,000	150,000	180,000
Long-Term Liabilities	50,000	60,000	70,000	80,000
Equity	210,000	265,000	310,000	395,000
Total Liabilities and Equity	360,000	445,000	520,000	635,000

Prepared by: [Name]

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'.