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Yields of the Field Experiments 1966

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66/R/IR/C/9 Irrigation - Potatoes and Barley

Rothamsted Research

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66/C/9.3

Standard errors per plot.

Potatoes, total tubers: Pooled whole & strip: 0.820 or 4.8% (10 d.f.)
 1/6 plot: 0.597 or 3.5% (25 d.f.)
 1/12 plot: 1.065 or 6.2% (36 d.f.)
 Barley, grain: Whole plot: 1.39 or 3.1% (5 d.f.)
 Sub plot: 2.26 or 5.0% (6 d.f.)

SUMMARY OF RESULTS

POTATOES

TOTAL TUBERS

	O & B	A & C	Mean
Mean	17.01	17.38	17.20
	(±0.335)		
M	17.27	17.46	17.37
E	16.76	17.29	17.02
	(1) and (2)		(±0.335)
S1	17.40	18.45	17.93
S2	17.20	17.70	17.45
S3	16.44	15.98	16.21
	(3) and (4)		(±0.410)
N1	16.66	16.97	16.82
N2	17.37	17.78	17.57
	(5) and (6)		(±0.154)

- (1) (±0.172) For use in interaction comparisons only
- (2) (±0.280) For use in all other comparisons
- (3) (±0.211) For use in interaction comparisons only
- (4) (±0.343) For use in all other comparisons
- (5) (±0.368) For use in vertical and diagonal comparisons
- (6) (±0.217) For use in horizontal and interaction comparisons

66/C/9.4

POTATOES

TOTAL TUBERS

	MS1	MS2	MS3	ES1	ES2	ES3
O & B	17.73	16.71	17.37	17.07	17.69	15.51
A & C	18.21	17.59	16.60	18.69	17.81	15.36

	MN1	MN2	EN1	EN2
O & B	17.15	17.39	16.17	17.34
A & C	17.35	17.58	16.59	17.98

	S1N1	S1N2	S2N1	S2N2	S3N1	S3N2
O & B	16.94	17.87	17.04	17.36	16.00	16.87
A & C	17.74	19.16	17.28	18.12	15.90	16.06

66/C/9.5

POTATOES

% WARE

	O & B	A & C	Mean
Mean	97.1	97.2	97.1
M	97.4	97.5	97.5
E	96.7	96.8	96.8
S1	96.4	96.6	96.5
S2	97.2	97.4	97.3
S3	97.5	97.7	97.6
N1	97.0	97.0	97.0
N2	97.1	97.4	97.2

66/c/9.6

POTATOES

% WARE

	MS1	MS2	MS3	ES1	ES2	ES3
O & B	96.9	97.5	97.7	96.0	96.8	97.4
A & C	97.1	97.8	97.8	96.1	96.9	97.5
	MN1	MN2	EN1	EN2		
O & B	97.5	97.3	96.5	96.9		
A & C	97.5	97.6	96.5	97.2		
	SN1	SN2	S2N1	S2N2	S3N1	S3N2
O & B	96.5	96.4	97.2	97.1	97.3	97.7
A & C	96.5	96.7	97.0	97.7	97.5	97.8

66/C/9.7

BARLEY

GRAIN

	O&B	A&C	Mean
	(1) and (2)		(±0.80)
N1	45.6	47.9	46.7
N2	43.4	43.2	43.3
Mean (±0.70)	44.5	45.6	45.0

STRAW

N1	44.5	44.6	44.6
N2	52.0	50.1	51.1
Mean	48.3	47.4	47.8

- (1) (±1.06) For use in horizontal and diagonal comparisons
 (2) (±1.13) For use in vertical and interaction comparisons

LARGE		SMALL		
1971	1972	1973	1974	
1,000	1,000	1,000	1,000	(1)
1,000	1,000	1,000	1,000	(2)
1,000	1,000	1,000	1,000	(3)
1,000	1,000	1,000	1,000	(4)
1,000	1,000	1,000	1,000	(5)
1,000	1,000	1,000	1,000	(6)
1,000	1,000	1,000	1,000	(7)
1,000	1,000	1,000	1,000	(8)
1,000	1,000	1,000	1,000	(9)
1,000	1,000	1,000	1,000	(10)

1,000 (10,000) (1)
 1,000 (10,000) (2)

66/C/10

ROW SPACING AND FERTILISERS

(WBU)

Row spacing and concentrated fertilisers - Woburn Workhouse 1966, the second year. Barley 1966 after potatoes 1965.

Design: Two replicates of 4 x 2 x 2 x 2 in 4 blocks of 16 plots.

Area of each plot: 0.0030.

Treatments: All combinations of:-

- To potatoes 1965.
1. Levels of NPK (in proportion 1.0 N, 1.0 P205, 1.5 K20) to supply: None (F0), 0.66 (F1), 1.32 (F2), 2.0 cwt N (F3).
 2. Types of fertiliser: Concentrated (C), dilute (D).
 3. Time of application: Before (B), after (A) rotary cultivation.
 4. Spacing of setts: 14 in. x 14 in. (S14), 14 in. x 28 in. (S28).
- To barley 1966.
5. Concentrated NPK fertiliser to supply: None (F0), 0.33 (F1), 0.66 (F2), 1.0 cwt N (F3) with P205 and K20 in proportion as above.

Basal applications: Manure: None. Mecoprop/2,4-D (Methoxone Extra at 6 pints in 35 gals).

Cultivations, etc.: Deep-tine cultivated twice: Oct 27, 1965. Fertilisers applied, rotary cultivated, seed drilled at 140 lb: Mar 9, 1966. Sprayed weedkiller: May 13. Combine harvested: Sept 12. Variety: Maris Badger.

NOTES: (1) For details of the previous year's results see 'Results' 65/C/18.
(2) The crop was badly damaged by birds and no yields were taken.