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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

Rothamsted Research (1967) *66/R/IR/C/9 Irrigation - Potatoes and Barley* ; Yields Of The Field Experiments 1966, pp 149 - 155 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

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

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Approved: [Signature] Special Agent in Charge (SAC) (I)
 Disapproved: [Signature] Assistant Special Agent in Charge (ASAC) (S)

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.