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## Yields of the Field Experiments 1965

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### 65/W/WBT/C/5 Methods of Application of Fertiliser 1964-65 - Potatoes

#### Rothamsted Research

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65/C/51

METHODS OF APPLICATION OF FERTILISER, 1965 - 1966

(WBT)

Methods of application of fertiliser - Woburn Broadmead I, 1965 the first year - potatoes.

Design: 3 randomised blocks of 12 plots.

Area of each plot: 0.0212. Area harvested: 0.0133.

Treatments: None (I0) - 3 plots per block - and all combinations of:-

1. Levels of (13:13:20) to supply (cwt):

| N    | P2O5 | K2O  |      |
|------|------|------|------|
| 0.66 | 0.66 | 1.02 | (I1) |
| 1.33 | 1.33 | 2.03 | (I2) |
| 2.00 | 2.00 | 3.07 | (I3) |

2. Methods of application: Broadcast (B), placed (P), broadcast and rotary cultivated in (BR).

NOTE: The experiment is designed to include an additional factor applied to the 1966 wheat crop, viz. PK broadcast on the seedbed and 'Nitro-Chalk' as spring dressing to supply:

N, P2O5 and K2O at levels as (I0), (I1), (I2) above.

Basal applications: Manures: None. Weedkiller: Linuron at 2 lb plus paraquat at 0.75 lb ion in 40 gals. Fungicide: Mancozeb at 1.2 lb in 37 gals.

Cultivations, etc.: Ploughed: Dec 10, 1964. BR fertilisers applied to ploughed land, all plots rotary cultivated: Apr 1, 1965. B fertilisers applied, potatoes machine planted: Apr 8. Sprayed (weedkiller): May 10, fungicide: July 3 and 16. Sprayed with diquat (Reglone at 4 pints in 34 gals): Aug 17. Lifted: Sept 28. Variety: King Edward. Previous crops: Winter wheat 1963, barley 1964.

Standard error per plot.

Total tubers: 0.933 or 8.5% (24 d.f.)

65/C/5.2

SUMMARY OF RESULTS

|               | I0   | I1       | I2    | I3    | Mean     |
|---------------|------|----------|-------|-------|----------|
| TOTAL TUBERS  |      |          |       |       |          |
|               |      | (±0.538) |       |       | (±0.311) |
| B             |      | 9.74     | 12.96 | 14.86 | 12.52    |
| P             |      | 13.14    | 15.42 | 14.85 | 14.47    |
| BR            |      | 10.09    | 11.53 | 14.37 | 12.00    |
| Mean (±0.311) | 5.11 | 10.99    | 13.30 | 14.69 | 11.02*   |
| % WARE        |      |          |       |       |          |
| B             |      | 89.9     | 94.5  | 94.7  | 93.0     |
| P             |      | 91.4     | 95.3  | 94.4  | 93.7     |
| BR            |      | 88.9     | 93.8  | 93.6  | 92.1     |
| Mean          | 76.8 | 90.1     | 94.5  | 94.2  | 88.9*    |

\* General mean