

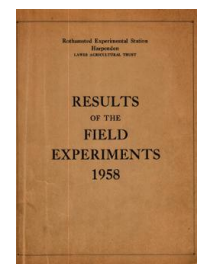
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## Yields of the Field Experiments 1958

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### 58/R/CF/3 Potatoes - Virus Spread (Insecticides)

#### Rothamsted Research

Rothamsted Research (1959) *58/R/CF/3 Potatoes - Virus Spread (Insecticides)* ; Yields Of The Field Experiments 1958, pp 112 - 112 - DOI: <https://doi.org/10.23637/ERADOC-1-181>

58/Cf/3

## POTATOES

Control of virus spread by application of insecticides to the soil at planting - Highfield Drive 1958.

Design: 4 × 4 Latin square.

Area of each plot: 0.0089 acres. Area harvested: 0.0081 acres.

Treatments (applied by hand in the ridges before planting):

|                                                                                                               |     |
|---------------------------------------------------------------------------------------------------------------|-----|
| Fertilizer alone, 10 cwt compound per acre (10% N, 10% P <sub>2</sub> O <sub>5</sub> , 18% K <sub>2</sub> O). | (C) |
| Fertilizer and 'Thimet' applied together.                                                                     | (F) |
| Fertilizer and 'Thimet' applied separately.                                                                   | (T) |
| Fertilizer and 'Rogor' applied separately.                                                                    | (R) |

Infecter plants: One leaf roll and one virus Y King Edward infecter planted in each plot.

Percentages and rate of application of % active ingredient of insecticide: 'Thimet' (Carbon powder) 44%, 'Rogor' (Charcoal powder) 50%, each at 10.8 lb per acre.

Cultivations, etc.: Dung applied at 10 tons per acre: Nov 26, 1957. Ploughed: Nov 28. Compound fertilizer applied: Apr 16, 1958. Potatoes hand planted: Apr 21. Earthed up: June 19. Sprayed with copper fungicide at 5 lb in 40 gallons per acre: July 12. Twice sprayed with copper fungicide at 3 lb and 1 pint of spreader to 40 gallons per acre: Aug 6 and 16. Sprayed with sulphuric acid, 20% BOV, 100 gallons per acre: Sept 18. Lifted: Sept 26. Variety: Majestic. Previous crop: Winter wheat.

Standard error per plot.

Total tubers: 0.845 tons per acre or 5.6% (6 d.f.)

Note: Aphid counts were made and tuber samples taken to assess virus spread.

Summary of Results

|                              | Treatment |       |       |       |       |
|------------------------------|-----------|-------|-------|-------|-------|
|                              | C         | F     | T     | R     | Mean  |
| Total tubers: tons per acre  |           |       |       |       |       |
| Mean (±0.423)                | 15.07     | 14.95 | 15.48 | 14.43 | 14.98 |
| Increase (±0.598)            |           | -0.12 | +0.41 | -0.64 |       |
| Percentage ware (1½" riddle) |           |       |       |       |       |
| Mean                         | 92.0      | 93.6  | 94.6  | 92.5  | 93.2  |
| Increase                     |           | +1.6  | +2.6  | +0.5  |       |