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## Yields of the Field Experiments 1956

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### 56/R/CE/5 and 56/W/CE/5 Potatoes - Control of Skin Spot (Fungicides)

#### Rothamsted Research

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56/Ce/5.1

## POTATOES

Control of skin spot (Oospora pustulans) by fungicides - Great Knott  
III 1956.

Design: 3 randomized blocks of 15 plots each.

Area of each plot: 0.0140 acres. Area harvested: 0.0070 acres.

### Treatments:

None (3 plots per block).

PCNB, 20% Parachloronitro benzene dust applied: to seed at 3 oz.  
per cwt (S); to furrows before planting at 300 lb per acre (F);  
(S) and (F).

Calomel, 4% dust applied: to seed at 12 oz. per cwt (S); to  
furrows before planting at 100 lb per acre (F); (S) and (F).

Nomersan, 10% Thiram dust applied: to seed at 3 oz. per cwt (S);  
to furrows before planting at 100 lb per acre (F); (S) and (F).

Griseofulvin applied: to seed as 50% glycerol paste at 0.6 g. per  
tuber (S); to furrows before planting as 0.4% suspension at  
100 gallons per acre (F); to foliage as 0.04% suspension at  
50 gallons per acre (L).

Basal dressing: 8 tons dung per acre ploughed in;  $10\frac{1}{2}$  cwt compound  
granular fertilizer (9% N, 9%  $P_2O_5$ , 15%  $K_2O$ ) per acre before ridging.

Cultivations, etc.: Dung applied, ploughed in: Sept 28, 1955. Basal  
fertilizer applied on flat: Apr 4, 1956. Ridged: Apr 16. Potatoes  
hand planted: Apr 17. Earthed up: June 29. Sprayed with copper  
fungicide, 5 lb in 40 gallons per acre: July 23. Sprayed again at  
3 lb in 30 gallons per acre: Aug 15. Sprayed with sulphuric acid,  
20% BOV, 80 gallons per acre: Sept 12. Lifted: Oct 9. Variety:  
Majestic. Previous crop: Wheat.

### Standard error per plot:

Total tubers: 1.12 tons per acre or 7.5% (30 d.f.)

Note: Emergence counts and records of incidence of root browning and  
skin spot (Oospora pustulans), black scurf and stem canker  
(Corticium solani) and common scab (Actinomyces scabies) were made.

56/Ce/5.2

Summary of Results

| Method of Application       | Fungicide |       |                 |       |       | Mean            |
|-----------------------------|-----------|-------|-----------------|-------|-------|-----------------|
|                             | None      | P     | C               | N     | A     |                 |
| Total tubers: tons per acre |           |       |                 |       |       |                 |
|                             |           |       | ( $\pm 0.649$ ) |       |       | ( $\pm 0.324$ ) |
| S                           |           | 13.67 | 14.73           | 15.31 | 12.95 | 14.16           |
| F                           |           | 14.31 | 16.77           | 14.97 | 16.07 | 15.53           |
| SF                          |           | 14.69 | 14.97           | 14.50 |       | 14.72           |
| L                           |           |       |                 |       | 15.48 | 15.48           |
| Mean ( $\pm 0.375$ )        | 15.11     | 14.22 | 15.49           | 14.92 | 14.83 | 14.92           |

(1)  $\pm 0.375$  (2)  $\pm 0.649$ Percentage ware ( $1\frac{1}{2}$ " riddle)

|      |      |      |      |      |      |
|------|------|------|------|------|------|
| S    | 88.1 | 84.1 | 91.4 | 80.5 | 86.0 |
| F    | 85.3 | 87.2 | 86.2 | 88.0 | 86.7 |
| SF   | 90.1 | 85.9 | 86.5 |      | 87.5 |
| L    |      |      |      | 87.5 | 87.5 |
| Mean | 86.2 | 87.9 | 85.7 | 88.0 | 85.3 |

Fungicide

P = PCNB (Parachloronitro benzene) 20% dust.

C = Calomel 4% dust.

N = Nomersan 10% thiram dust.

A = Griseofulvin.

Methods of application

S = Seed treated.

F = Applied to furrows before planting.

L = Applied as spray to foliage.