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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% P₂O₅, 15% K₂O) 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 80 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						
			(± 0.649)			(± 0.324)
S		13.67	14.73	15.31	12.95	14.16
F		14.31	16.77	14.97	16.07	15.53 ⁽¹⁾
SF		14.69	14.97	14.50		14.72 ⁽²⁾
L					15.48	15.48 ⁽²⁾
Mean (±0.375)	15.11	14.22	15.49	14.92	14.83	14.92

(1) ±0.375 (2) ±0.649

Percentage ware (1½" 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.