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Yields of the Field Experiments 1959

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59/R/CF/4 Potatoes - Control of Blight (Tin and Copper Sprays)

Rothamsted Research

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59/Cf/5.1

POTATOES

The control of weeds by triazine sprays - Rothamsted (R) Great Field I and Woburn (W) Great Hill 1959.

Design (each field): 3 randomized blocks of 4 plots each.

Area of each plot (acres): 0.0318. Area harvested: Great Field I (R) - 0.0141; Great Hill (W) - 0.0182.

Treatments: Pre-emergence sprays:- None;
2-chloro-4-6-bis-ethylamino-s-triazine (Simazine) (S):
at 1 lb in 40 gallons per acre (1);
2 lb in 80 gallons per acre (2);
3 lb in 120 gallons per acre (3).

Basal dressing: 10 cwt compound fertilizer (10% N, 10% P₂O₅, 18% K₂O) per acre.

Cultivations, etc.:

Great Field I (R). Ploughed: Sept 9, 1958. Basal dressing applied: Mar 26, 1959. Potatoes machine planted: Apr 1. Sprays applied to appropriate plots: Apr 14. Sprayed with copper fungicide at 5 lb in 40 gallons per acre: Aug 15. Sprayed with sulphuric acid, 15% BOV in 100 gallons per acre: Sept 21. Tops destroyed mechanically: Oct 3. Lifted: Oct 8. Variety: Ulster Supreme. Previous crop: Barley.

Great Hill (W). Ploughed: Jan 24 - Feb 11, 1959. Basal dressing applied: Apr 23. Potatoes machine planted: Apr 28. Sprays applied to appropriate plots: Apr 29. Lifted: Oct 1. Variety: King Edward. Previous crop: Barley.

Standard error per plot: Total tubers.

Great Field I (R): 1.630 tons per acre or 16.5% (6 d.f.)

Great Hill (W): 1.249 tons per acre or 32.7% (6 d.f.)

Note: On Great Hill (W) about half the tubers which would normally have been included in ware were severely shrivelled: the means of percentage ware given in the summary do not include these shrivelled tubers.