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67/R/RP10/1/DD/9 and 67/W/WP1/1/DD/9 Potatoes - Chitting and Scab

Rothamsted Research

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67/Dd/9.1

POTATOES

(RP 10/1 and WP 101)

Chitting and scab - Rothamsted (R) Pastures and Woburn (W) Great Hill Bottom I, 1967.

Design: 4 randomised blocks of 3 plots.

Area of each plot: 0.0150. Area harvested: 0.0007.

Treatments:

Non-chitted seed planted Apr 20 - 21 (OE), May 18 (OL), chitted seed planted Apr 20 - 21 (CE).

Basal applications: 10 cwt (13:13:20). Weedkiller: Linuron at 0.75 lb plus paraquat at 0.5 lb in 37 gals. Fungicides:- Pastures (R): Mancozeb at 1.2 lb in 30 gals. Great Hill (W): Fentin acetate at 4.2 oz plus maneb at 1.4 lb in 30 gals on three occasions, and mancozeb at 1.2 lb in 30 gals.

Cultivations, etc.:

Pastures (R): Rotary cultivated: Sept 16, 1966. Ground chalk applied at 50 cwt: Jan 6, 1967. Ploughed: Jan 11. Basal NPK compound applied: Apr 4. Plots rotary cultivated, potatoes machine planted on OE and CE plots: Apr 20. Weedkiller applied, potatoes dibbled in on OL plots: May 18. Fungicide applied: Aug 3. Sprayed with undiluted BOV at 15 gals: Aug 23. Lifted: Aug 29. Variety: Majestic. Previous crops: Spring wheat 1965, fallow 1966.

Great Hill Bottom I (W): Ploughed: Aug 5, 1966. Ground chalk applied at 40 cwt: Jan 9, 1967. Deep-tine cultivated: Mar 20. Basal NPK compound applied: Mar 20. Rotary cultivated: Apr 20. Potatoes machine planted on OE and CE plots: Apr 21. Weedkiller applied: May 12. Potatoes dibbled in on OL plots: May 18. Sprayed with fentin acetate plus maneb: July 3, July 26, Aug 21. Sprayed with mancozeb: Aug 8. Lifted: Aug 25. Variety: Majestic. Previous crops: Sugar beet 1965, fallow 1966.

NOTE: Samples were taken in June and July for estimates of the incidence of scab and for the degree of tuberisation.

Standard errors per plot. Total tubers:

Pastures (R): 1.117 or 6.4% (6 d.f.)

Great Hill Bottom I (W): 0.771 or 5.8% (6 d.f.)

67/Da/9.2

SUMMARY OF RESULTS

TOTAL TUBERS

OE	OL	CE	Mean
PASTURES (R)			
(±0.559)			
17.93	15.85	18.64	17.47
GREAT HILL BOTTOM I (W)			
(±0.386)			
13.49	11.36	15.12	13.32