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Numerical Results of the Field Experiments 1969

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69/W/P/6 - Deeply Injected Fertiliser - Potatoes

Rothamsted Research

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POTATOES

(69/W/P/6)

Deeply injected fertiliser - Woburn Stackyard C 1969.

Design: 3 blocks of 10 plots.

Area of each plot: 0.0022. Area harvested: 0.0022.

Treatments: FYM, fertilisers and methods of application:

F2D, F4D, F2DS, F4DS, F2S, F4S, D2, D4, D2F2S, D4F2S where

D2: D4 = 15: 30 tons FYM dug in

F2: F4 = 2.0 cwt N, 3.0 cwt P2O5, 3.0 cwt K2O, 4.0 cwt N, 6.0 cwt P2O5, 6.0 cwt K2O as 'Nitro-Chalk' 21% N and compound fertiliser (0:20:20).

DE: S: DES = Applied deeply: shallowly: half deeply and half shallowly.

Basal applications: 3 tons ground chalk, 5 cwt kieserite. Insecticides: Malathion at 0.6 pts in 50 gals. Dimethoate at 0.3 lb in 40 gals on two occasions with fungicide. Fungicide: Fentin hydroxide at 0.07 lb plus maneb at 0.53 lb in 40 gals on two occasions with dimethoate, fentin hydroxide at 0.1 lb plus maneb at 0.8 lb in 40 gals on one occasion.

Cultivations, etc.: Ploughed: 7 Feb, 1969. Ground chalk, FYM and deeply applied PK applied and dug in: 6 Mar. Deep N applied and rotary cultivated, shallow N, PK, basal Mg applied and raked in, potatoes planted: 15 Apr. Ridged: 16 Apr. Earthed up, malathion applied: 12 June. Dimethoate and fungicide applied: 2 July, 16 July. Fungicide applied: 21 Aug. Lifted: 1 Oct. Variety: King Edward. Previous crops: Spring wheat 1967, fallow 1968.

Standard error per plot.

Total tubers, tons: 1.270 or 6.3% (18 d.f.)

SUMMARY OF RESULTS

	TOTAL TUBERS, TONS	% WARE
	(±0.733)	
F2 DE	20.28	81.8
F4 DE	24.37	86.0
F2 DES	20.94	83.2
F4 DES	21.21	88.3
F2 S	20.34	82.7
F4 S	17.42	85.3
D2	14.89	80.8
D4	16.59	81.1
D2F2 S	22.14	85.9
D4F2 S	23.14	86.6
Mean	20.13	84.2