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Yields of the Field Experiments 1948



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48/CD/1 Potatoes - Organics

Rothamsted Research

Rothamsted Research (1949) 48/CD/1 Potatoes - Organics ; Yields Of The Field Experiments 1948, pp 77 - 79

48/cd/1.1

POT ATOES.

Effects of various dungs, of additional straw to dung, of rotted bracken, and of sulphate of ammonia and muriate of potash.

RP - Sawyers II, 1948

System of replication: 5 x 5 lattice square in 3 replicates, plots split into two for application of nitrogen and potash, the interaction of these being confounded with whole plots.

Area of each sub-plot 0.0126 acre.

Treatments:

Of the 25 whole plots in each replicate, 3 received no organic manures, and the remaining 22 were treated with the following organic manures, applied at two rates: rotted bracken (B) and ten dungs: from bullock boxes:- fresh, made with normal and heavy litter (W and X), and stored (12 months under cover) made with normal and heavy litter (R and S): from straw bale yards:- fresh made with normal and heavy litter (Y and Z), stored (12 months in open) made with normal and heavy litter (A and K) and stored (12 months in open) low ration, and low ration plus sulphate of ammonia to straw (T and V).

Rates of application: The rotted bracken (B) and the fresh normal dung from boxes (W) at 8 and 16 tons per acre, dungs X, Y, Z, R, S, A and K at weights produced by the same quantity of feeding stuffs as 8 and 16 tons of fresh normal dung from boxes, and dungs T and V at the same rates as Z.

48/cd/1.2

				0.5	
		Actual appl	Actual rates of application		
		Tons	lbs/head/day		
		Level 1	Level 2		
Dungs	WXYZRSAKT at	8.00 6.90 8.74 8.21 2.65 2.74 3.66 3.66	16.00 13.81 17.49 16.42 5.31 5.49 6.09 7.33	10.6 20.3 10.4 20.9 18.3 17.3 16.2	

Sulphate of ammonia: None, 0.6 cwt N per acre Muriate of potash: None, 1.0 cwt K20 per acre

Basal Manuring: 3.75 cwt. Superphosphate per acre

Cultivations, etc: Ploughed: during Jan. Cultivated: Mar.16 Harrowed: Mar. 25. Ridged: Apr.23-24. Superphosphate drilled, sulphate of ammonia and muriate of potash applied Apr.26. Organics applied: Apr.29-30. Potatoes planted and covered in: Apr. 30-May 1. Rolled down ridges: May 6 Harrowed: May 25. Grubbed: June 15. Weeded and earthed up: July 2-3. Sprayed with "Perinox": Aug.10. Sprayed to kill off haulm: Sept.15. Lifted: Oct.1-4. Variety: Majestic (Scotch A). Previous crop: Barley.

Standard errors per plot:

Total tubers, per whole plot, 0.661 tons per acre or 5.28% (24 d.f.) per sub-plot, 0.983 tons per acre or 7.84% (29 d.f.)

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