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Yields of the Field Experiments 1951



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51/CE/2 Potatoes - Method of Planting - Rothamsted

Rothamsted Research

Rothamsted Research (1952) 51/CE/2 Potatoes - Method of Planting - Rothamsted; Yields Of The Field Experiments 1951, pp 81 - 82 - DOI: https://doi.org/10.23637/ERADOC-1-171

51/Ce/2.1

POTATOES

Methods of Planting and fertilizer application - Great Harpenden, 1951.

System of replication: 3 randomized blocks of 9 plots each.

Area of each plot: 0.028 acre. Area harvested: 0.021 acre.

Treatments: All combinations of:Compound fertilizer (7% N, 7% P205, 10.5% K20); None; 72;
15 cwt per acre.

Methods of planting: A - Draw ridges, broadcast fertilizer over ridges, plant by hand, split back ridges (standard method); D - Broadcast fertilizer on the flat, draw ridges, plant deep in ridges with dropper; S - As D but plant shallow.

Basal manuring: None

Cultivations, etc.: Ploughed: Sept 25 and again Jan 3. Ridged, fertilizer applied, potatoes planted: May 17. Earthed up ridges: July 23. Sprayed with copper fungicide, 5 lb per acre: Aug 16 and again Sept 11. Sprayed with 20% sulphuric acid to kill off haulm: Oct 10. Lifted: Oct 17. Variety: Majestic. Previous crop: Linseed.

Standard errors per plot:
Total clean tubers: 0.768 tons per acre or 12.2% (16 d.f.)
Plant number: 0.562 thousands per acre or 5.0% (16 d.f.)

51/Ge/2.2

Summary of Results

2 7 1/1/2	Method of planting			
Compound Fertilizer cwt per acre	A	D	S	Mean
Total C	lean Tuber	s: tons p	er acre	
		(±0.443)		(±0.256)
0	3.44	4. 73	6.03	4. 73
7 1 / ₂	4. 67	7.73	7.54	6.65
15	6, 59	7. 21	8.72	7.51
Mean (±0.256)	4.90	6,56	7.43	6.30

Plant Number: thousands per acre

	(±0.32)			(±0.19)
0	10.1	11.3	12.2	11.2
7 ½	9.6	12.2	12.1	11.3
15	10.2	11.7	11.8	11.2
Mean (±0,19)	9.9	11.7	12.0	11.2

A - Draw ridges, broadcast fertilizer over ridges, plant by hand, split back ridges (standard method).

D - Broadcast fertilizer on the flat, draw ridges, plant deep in ridges with dropper.

S - As D but plant shallow.