

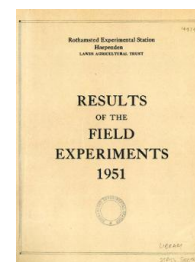
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Yields of the Field Experiments 1951

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51/CE/3 Potatoes - Fertilizer Placement - Rothamsted

Rothamsted Research

Rothamsted Research (1952) *51/CE/3 Potatoes - Fertilizer Placement - Rothamsted* ; Yields Of The Field Experiments 1951, pp 83 - 83 - DOI: <https://doi.org/10.23637/ERADOC-1-171>

51/Ce/3

POTATOES

Fertilizer placement - Great Harpenden I 1951.

System of replication: 3 randomized blocks of 12 plots each.

Area of each plot: 0.014 acre. Area harvested: 0.0056 acre.

Treatments: None (duplicate plots) and all combinations of:-

Compound granular fertilizer (7% N, 7% P_2O_5 , 10.1% K_2O): $7\frac{1}{2}$; 15 cwt per acre

Methods of placement: In front of seed shoe; in sidebands 4" to side of seed and at same depth as seed; broadcast on flat before planting by machine; in contact with seed; half broadcast on flat before planting, half in contact with seed.

Basal manuring: None

Cultivations, etc.: Ploughed: Sept 25 and again Jan 23. Ridged, potatoes planted, fertilizers applied: May 11. Earthed up ridges: July 12. Sprayed with copper fungicide 5 lb per acre: Aug 16 and again Sept 11. Sprayed with 20% sulphuric acid: Oct 10. Lifted: Oct 20. Variety: Majestic. Previous crop: Linseed.

Standard error per plot:

Total tubers: 1.45 tons per acre or 13.8% (23 d.f.)

Summary of Results

Total tubers: tons per acre

Compound Fertilizer cwt per acre	Method of placement					Mean
	In front of seed shoe	Sidebands 4" to side and at same depth as seed	Broadcast on flat before planting	In contact with seed	$\frac{1}{2}$ broad- cast on flat before planting, $\frac{1}{2}$ in contact with seed	
None	(± 0.838)					7.04 ⁽¹⁾
$7\frac{1}{2}$	9.30	11.51	9.06	9.89	10.92	10.13 ⁽²⁾
15	13.07	11.59	13.34	11.77	11.96	12.35 ⁽²⁾
Mean (± 0.593)	11.19	11.55	11.20	10.83	11.44	10.54

Standard errors: (1) 0.593
(2) 0.375