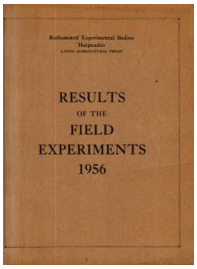
ROTHAMSTED RESEARCH

Yields of the Field Experiments 1956

Full Table of Content



56/R/CE/1 Potatoes - Placement of N and K

Rothamsted Research

Rothamsted Research (1957) *56/R/CE/1 Potatoes - Placement of N and K ;* Yields Of The Field Experiments 1956, pp 90 - 90 **- DOI: https://doi.org/10.23637/ERADOC-1-176**

POTATOES

Placement of nitrogen and potash - West Barnfield I 1956.

Design: 4 randomized blocks of 18 plots each.

Area of each plot: 0.0140 acres. Area harvested: 0.0057 acres.

Treatments: None (2 plots per block) and all combinations of:-
Nitrogen: 0.5; 1.0 cwt N per acre as sulphate of ammonia.
Potash: 0.75; 1.5 cwt K_2O per acre as sulphate of potash.
Methods of placement: Broadcast on flat before planting; Fertilizer placed 3" to side and 1" below seed at planting.

Basal dressing: 1.0 cwt P_2O_5 per acre as superphosphate placement drilled.

Cultivations, etc.: Ploughed: Nov 1, 1955. Broadcast fertilizers applied: Apr 11, 1956. Potatoes machine planted with placed fertilizers: Apr 12. Earthed up: June 28. Sprayed with copper fungicide, 5 lb in 40 gallons per acre: July 24. Sprayed again at 5 lb in 90 gallons per acre: Aug 25. Sprayed with sulphuric acid, 20% B.O.V.: Sept 14. Lifted: Oct 16 - 20. Variety: King Edward. Previous crop: Wheat.

Standard error per plot:
Total tubers: 0.750 tons per acre or 6.4% (52 d.f.)

Summary of Results

Total tubers: tons per acre

K_2O: cwt per acre	N: cwt per acre				Mean
	Broadcast		Placed		
	0.5	1.0	0.5	1.0	
	(± 0.375)				(± 0.187)
Broadcast					
0.75	10.28	12.55	9.94	10.81	10.90
1.5	12.06	14.34	11.82	12.86	12.77
Placed					
0.75	11.68	12.98	12.23	12.43	12.33
1.5	12.77	14.48	13.48	14.32	13.76
Mean (±0.187)	11.70	13.59	11.87	12.61	12.44 (±0.094)
No N or K_2O					6.72 (±0.265)
General mean					11.80

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