

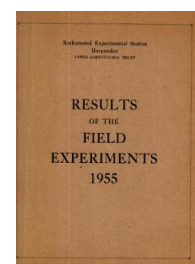
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Yields of the Field Experiments 1955

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55/R/CG/1 Kale - Placement of N P and K

Rothamsted Research

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55/Cg/1

KALE

Placement of nitrogen, phosphate and potash - Great Harpenden II 1955.

Design: 4 randomized blocks of 10 plots each.

Area of each plot: 0.00909 acre. Area harvested: 0.00727 acre.

Treatments: None (2 plots per block) and all combinations of

Fertilizer: P; K; PK; NPK.

Method of application: Broadcast in seed bed; Drilled in band 2" to side of seed and 3" below soil surface

where N = 0.4 cwt N per acre as sulphate of ammonia.

P = 0.6 cwt P_2O_5 per acre as superphosphate.

K = 1.0 cwt K_2O per acre as sulphate of potash.

In addition top dressings were applied:-

To "NPK" plots: 0.4 cwt N per acre as sulphate of ammonia.

To all other plots: 0.8 cwt N per acre as sulphate of ammonia.

Basal dressing: 7 cwt ground chalk per acre.

Cultivations, etc.: Ploughed: Oct 12, 1954. Ground chalk applied:

Apr 6, 1955. Broadcast fertilizers applied: Apr 20. Seed

drilled at 4 lb per acre with sideband fertilizer: Apr 21. Top

dressing applied: July 5. Cut: 2 blocks, Nov 29; remainder, Dec 6.

Variety: Marrow-stem. Previous crop: Barley.

Standard error per plot:

Yield: 1.55 tons per acre or 13.2% (28 d.f.)

Summary of Results

Yield: tons per acre

N Top dressing: cwt per acre	0.8				0.4	Mean
	None	P	K	PK	NPK	
Treatments at sowing						
Method of application	(±0.774)					
Broadcast		12.15	12.14	10.93	11.36	11.64
Drilled		12.11	11.49	12.77	11.82	12.05
Mean (±0.547)	11.13	12.13	11.82	11.85	11.59	11.70
Difference (±1.094)		-0.04	-0.65	+1.84	+0.46	+0.41 (±0.547)