

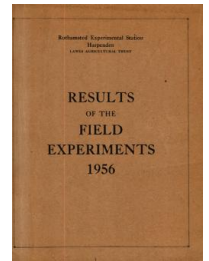
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Yields of the Field Experiments 1956

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56/R/CH/1 Kale - Placement of N P and K

Rothamsted Research

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56/Ch/1

KALE

Placement of nitrogen, phosphate and potash - W.Barnfield I 1956.

Design: 4 randomized blocks of 10 plots each.

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

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 2" 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 muriate of potash

In addition top dressings were applied:-

To "NPK" plots: 0.8 cwt N per acre as sulphate of ammonia

To all other plots: 1.2 cwt N per acre as sulphate of ammonia.

Basal dressing: None.

Cultivations, etc.: Ploughed: Nov 1, 1955. Broadcast fertilizers
applied, seed drilled at 6 lb per acre with sideband fertilizer:
Apr 17, 1956. Sprayed with miscible DDT, 3 pints in 40 gallons:
May 11. Top dressing applied: June 22. Cut (by blocks):
Dec 3, 10, 14 and 20. Variety: Marrowstem. Previous crop:
Wheat.

Standard error per plot:

Yield: 2.00 tons per acre or 7.9% (28 d.f.)

Summary of Results

Yield: tons per acre

N top dressing: cwt per acre Treatment at sowing	1.2				0.8	Mean
	None	P	K	PK	NPK	
<u>Method of application</u>	(± 0.999)					
Broadcast		24.28	22.90	28.04	28.04	25.81
Drilled		26.67	19.84	30.55	31.03	27.02
Mean (±0.707)	20.49	25.47	21.37	29.30	29.53	25.23
Difference (±1.413)		+2.39	-3.06	+2.51	+2.99	+1.21 (± 0.707)