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Yields of the Field Experiments 1950

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50/CF/1 Kale - Fertilizer Placement - Rothamsted

Rothamsted Research

Rothamsted Research (1951) *50/CF/1 Kale - Fertilizer Placement - Rothamsted* ; Yields Of The Field Experiments 1950, pp 79 - 80 - DOI: <https://doi.org/10.23637/ERADOC-1-185>

50/GP/1.1

KALE

Fertilizer placement - Stackyard 1950.

System of replication: 3 randomized blocks of 8 plots each.

Area of each plot: 0.0152 acre. Area harvested: 0.00505 acre.

Treatments: None (duplicate plots) together with all combinations of:
Compound Granular PK fertilizer (14% P_2O_5 , 14% K_2O): 2.75,
5.50 cwt per acre.

Methods of placement: Broadcast during preparation of seedbed and worked in by cultivators and harrows; drilled in a band 2" to side of seed and 3" below the soil surface; half dressing broadcast as above and half drilled beside the seed.

Basal manuring: 4 cwt sulphate of ammonia per acre.

Cultivations, etc.: Ploughed: Sept 20-22 and again Dec 8-10.
18 cwt ground chalk per acre applied: Mar 12. Springtined: Mar 16 and again Mar 22. Fertilizer broadcast and harrowed in: Mar 24. Rolled, seed and fertilizer drilled: Mar 25. Sulphate of ammonia drilled: Mar 27. Harrowed in: Mar 28. Sprayed with Arkotine: Apr 21 and again May 2. Hoed: May 19 and 24.
Harvested: Dec 4, 7, 12, 16, 19 and 21. Variety: Thousand Head.
Previous crop: Mixed cereals.

Standard errors per plot:

Yield: 3.43 tons per acre or 13.3% (15 d.f.)
Plant number: 9.74 thousands per acre or 17.6% (15 d.f.)

50/cf/1.2

Summary of Results

Method of Placement

Compound fertilizer cwt per acre	Method of Placement			Mean
	Broadcast	Drilled	Broadcast Drilled	
	Yield: tons per acre (± 1.98)			
None				25.03 (± 1.40)
2.75	26.93	26.81	25.19	26.31
5.50	26.22	25.81	26.02	26.02 (± 1.14)
Mean (± 1.40)	26.58	26.31	25.60	25.88
Difference (± 2.80)	-0.71	-1.00	0.83	-0.29 (± 1.62)
	Plant number: thousands per acre (± 5.62)			
None				55.3 (± 3.97)
2.75	64.9	44.1	57.4	55.4
5.50	63.4	52.7	48.7	55.0 (± 3.25)
Mean (± 3.97)	64.2	48.4	53.0	55.2
Difference (± 7.95)	-1.5	8.6	-8.7	-0.4 (± 4.59)