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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/Cf/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% P205, 14% K20): 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	Broadcast	Drilled	Broadcast Drilled	Mean
	Yield	d: tons per	acre	
None		(±1.98)		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	er: thousands	s per acre	
1		(+ 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	(±3,25) 55.0
Mean (±3.97)	64.2	48.4	53.0	55.2
Difference (±7.95)	-1.5	8,6	- 8 . 7	-0.4 (±4.59)