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64/R/AX/C/11 N and NPK Residuals - Spring Wheat and Kale

Rothamsted Research

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64/C/11.1

N AND NPK RESIDUES

(AX)

An investigation of the relative importance of short term N and PK residues - Fosters West Side 1964.

Crops in 1964: Spring wheat and kale.

Design: 4 randomised blocks of 16 plots each, with sub blocks of 8 plots each per crop.

Area of each plot: 0.0193. Area harvested: Spring wheat - 0.0129, kale - 0.0087.

Treatments (broadcast in seedbed): All combinations of:-

1. N: None (N0), 0.5 (N1), 1.0 (N2), 1.5 (N3) cwt as 'Nitro-Chalk'.
2. PK: None (0), 2.0 cwt P2O5 and 2.0 cwt K2O as 0:20:20 (C).

Basal dressing: None.

Cultivations, etc.: Ploughed twice: Oct 8 and Dec 2, 1963.

Spring wheat. Fertilisers applied: Mar 31, 1964. Seed drilled at 2.75 bushels: Apr 2. Sprayed with mecoprop/2,4-D (Methoxone Extra at 6 pints in 40 gals): May 28. Combine harvested: Aug 31. Variety: Jufy 1.

Kale. Fertilisers applied: Apr 1, 1964. Seed drilled at 2 lb: May 7. Harvested: (by blocks) Nov 5, 12, 19, 26. Variety: Thousand Head.

Previous crops: Sugar beet 1962, spring wheat 1963.

NOTE: The spring wheat was affected by take-all (*Ophiobolus graminis*).

Standard errors per plot.

Spring wheat, grain: 3.29 or 12.5% (21 d.f.)

Kale, fresh weight: 1.724 or 11.6% (21 d.f.)

64/C/11.2

SUMMARY OF RESULTS

	NO	N1	N2	N3	Mean
	SPRING WHEAT				
	GRAIN				
	(±1.65)				
	(±0.82)				
O	16.5	26.2	30.3	29.2	25.5
C	14.1	28.0	33.9	33.1	27.3
Mean (±1.16)	15.3	27.1	32.1	31.1	26.4

Mean D.M.%: 85.6

KALE

	FRESH WEIGHT				
	(±0.862)				
	(±0.431)				
O	9.17	15.38	17.12	19.07	15.19
C	9.61	14.47	15.59	18.74	14.60
Mean (±0.610)	9.39	14.93	16.35	18.91	14.89