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64/R/NL/B/8 N Levels and Residues Two Course Rotation

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64/B/8.1

N LEVELS AND RESIDUES ROTATION

(NL)

Direct and residual effects of sulphate of ammonia - Long Hoos III, 1964, the fifth and final year.

Rotation: Wheat, potatoes. In 1964, winter wheat only, following potatoes.

Design: 3 x 3 x 3 in 3 blocks of 9 plots each.

Area of each plot: 0.0212. Area harvested: 0.0141.

Treatments: All combinations of:-

N 1964.	None (N0), 0.5 (N1), 1.0 (N2) cwt N.
N to potatoes 1963.	None (NP0), 0.75 (NP1), 1.50 (NP2) cwt N.
N to wheat 1960 & 1962.	None (NW0), 0.5 (NW1), 1.0 (NW2) cwt N.

The nitrogen was applied as sulphate of ammonia. Ground chalk was applied in October 1962 at 1 cwt per cwt of sulphate of ammonia applied in 1960, 1961 and 1962.

Basal dressing: 2.25 cwt 0:14:28 combined drilled.

Cultivations, etc.: Chisel ploughed: Oct 14, 1963. Seed drilled at 3 bushels: Oct 19. Sulphate of ammonia applied, plots sprayed with mecoprop/2,4-D (Methoxone Extra at 7 pints in 40 gals): Apr 27, 1964. Combine harvested: Aug 25. Variety: Cappelle.

NOTES: (1) For details of the previous years' results see 'Results' 60/B/10, 61/B/9, 62/B/9 and 63/B/9.

(2) If the N levels to potatoes 1961 are included, the design becomes a 1/3 replicate, but no account of this factor has been taken in the analysis.

Standard error per plot. Winter wheat:

Grain: 2.79 or 10.4% (15 d.f.)

64/B/8.2

SUMMARY OF RESULTS

GRAIN

	NP			NW			Mean
	0	1	2	0	1	2	
	(±1.61)			(±1.61)			(±0.93)
N 0	19.0	20.3	25.5	20.9	21.0	22.9	21.6
1	24.5	26.1	25.6	25.7	22.9	27.7	25.4
2	29.8	35.3	35.6	35.0	32.3	33.4	33.6
			0	24.7	23.4	25.2	24.4
			NP 1	25.6	26.8	29.2	27.2
			2	31.2	26.0	29.4	28.9
Mean (±0.93)				27.2	25.4	28.0	26.8

Mean D.M. %: 82.4