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# Yields of the Field Experiments 1971

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## 71/R/B/13 Methods of Applying N P K - Barley

### Rothamsted Research

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71/R/B/13

BARLEY

METHODS OF APPLYING NPK

Object: To study the effect of injecting NPK fertiliser between bands of seed, using the Tume Combi drill, on the yields of barley - West Barnfield I.

Design: 6 randomised blocks of 4 plots.

Dimensions of whole plot: 4.88 x 15.2. Area harvested: 0.00464.

Treatments: All combinations of:-

1. Drills and row spacing: Combine drill, 17.8 cm (7 inches) between rows (C), Tume Combi drill 25.4 cm (10 inches) between band centres (T).
2. Rates of compound fertiliser (25:10:10): 264, 505 kg.

Basal applications: No manures. Weedkillers: Paraquat at 0.28 kg ion in 225 l and later at 0.56 kg ion in 225 l, ioxynil octanoate, bromoxynil octanoate and the iso-octyl ester of dichlorprop ('Oxytril P' at 1.4 l in 225 l).

Cultivations, etc.: Paraquat applied: 19 Sept, 1970. Ploughed: 24 Sept. Paraquat applied: 5 Feb, 1971. Seed combine drilled at 157 kg: 26 Mar. 'Oxytril P' applied: 11 May. Combine harvested: 17 Aug. Variety: Julia. Previous crops: Spring oilseed rape 1969, winter wheat 1970.

Standard error per plot.

Grain, tonnes/hectare: 0.276 or 5.4% (15 d.f.)

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SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

(25:10:10): KG/HA

	264	505	Mean
	(±0.113)		(±0.080)
C	5.03	5.14	5.09
T	4.99	5.17	5.08
Mean (±0.080)	5.01	5.16	5.09

Mean D.M. %: 85.0