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80/R/BE/13 Spring Beans Foliar Nutrition

Rothamsted Research

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80/R/BE/13

SPRING BEANS

FOLIAR NUTRITION

Object: To study the effects of foliar nutrition on the yield and nitrogen uptake of spring beans - Garden Plot 11.

Sponsors: J.M. Day, J.F. Witty.

Design: 8 randomised blocks of 5 plots.

Whole plot dimensions: 2.54 x 3.66.

Treatments:

NUTRIENT	Foliar nutrients:-
O	None
U	Urea
U + KS	Urea + potassium sulphate
U + KP	Urea + potassium polyphosphate
U + KS + KP	Urea + potassium sulphate + potassium polyphosphate

NOTE: (1) Rates of nutrients (kg element) applied on each of four spray occasions:

	N	P	K	S
			in sulphate	in phosphate
O	-	-	-	-
U	20	-	-	-
U + KS	20	-	7.5	3.0
U + KP	20	2.0	-	4.9
U + KS + KP	20	2.0	2.6	4.9

(2) Sprays were applied in 540 l on 11 July, 1980, 18 July, 25 July and 1 August.

(3) Urea was labelled with 15N.

Basal applications: Manure: Chalk at 2.9 t. Weedkillers: Trietazine and simazine (as 'Remtal SC' at 3.0 l) in 340 l. Insecticide: Permethrin at 0.15 kg in 340 l.

Seed: Minden, sown at 220 kg.

Cultivations, etc.: Chalk applied: 18 Oct, 1979. Ploughed: 15 Nov. Spring-tine cultivated: 7 Apr, 1980. Power harrowed, seed sown: 8 Apr. Weedkillers applied: 15 Apr. Insecticide applied: 12 May. Hand harvested: 24 Sept. Previous crops: W. wheat 1978 and 1979.

NOTE: The ratios of 14N to 15N in the grain was measured.

80/R/BE/13

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

NUTRIENT	0	U	U+KS	U+KP	U+KS+KP	MEAN
	4.04	4.38	3.92	4.10	4.09	4.11

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	NUTRIENT
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SED	0.290

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	28	0.579	14.1
PLOT AREA HARVESTED	0.00093		