

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1980

[Full Table of Content](#)



80/R/BE/13 Spring Beans Foliar Nutrition

Rothamsted Research

Rothamsted Research (1981) *80/R/BE/13 Spring Beans Foliar Nutrition* ; Yields Of The Field Experiments 1980, pp 295 - 296 - DOI: <https://doi.org/10.23637/ERADOC-1-31>

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	1.0

(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
-----	-----
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		