

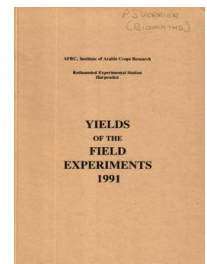
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91/R/WW/8 Foliar Potassium Nitrate - W. Wheat

Rothamsted Research

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91/R/WW/8

WINTER WHEAT

FOLIAR POTASSIUM NITRATE

Object: To study the effects of foliar applications of potassium nitrate and urea on the yield and nutrient composition of w. wheat - Summerdells II.

Sponsor: P.B. Barraclough.

Design: 5 randomised blocks of 9 plots.

Whole plot dimensions: 3.0 x 15.0.

Treatments:

FOLIAR N	Foliar nitrogen; all applications were divided equally and applied on two closely spaced days:				
NONE	None (duplicated)				
K20E	20 kg K as potassium nitrate at GS 39 on 29 and 30 May, 1991				
K20EU40E	"	"	"	"	plus 40 kg N as urea on 29 and 30 May
U40E	40 kg N as urea on 29 and 30 May				
K5M	5 kg K as potassium nitrate at GS 59 on 17 and 20 June				
K20M	20 kg K	"	"	"	17 and 20 June
K20EK20M	"	"	"	"	on 29 and 30 May repeated on 17 and 20 June
K20MK20L	"	"	"	"	on 17 and 20 June repeated at GS 71 on 9 and 10 July

NOTE: All plots received N at 120 kg as 'Nitram' applied on 3 Apr, 1991.

Basal applications: Manures: (0:20:32) at 980 kg. Weedkillers: Bifenox at 0.95 kg and chlorotoluron at 3.5 kg in 200 l. Glyphosate at 1.4 kg in 200 l. Fungicide: Fenpropimorph at 0.38 kg in 200 l.

Seed: Mercia, sown at 170 kg.

Cultivations, etc.:- Deep-tine cultivated: 6 Oct, 1990. Ploughed, furrow pressed: 10 Oct. Rotary harrowed, seed sown: 13 Oct. Bifenox and chlorotoluron applied: 13 Nov. PK applied: 6 Dec. Fungicide applied: 9 May, 1991. Glyphosate applied: 12 Aug. Combine harvested: 22 Aug. Previous crops: W. oilseed rape 1989, potatoes 1990.

NOTES: (1) Leaf samples were taken approximately five days after foliar treatment applications to measure N and K contents.
(2) Components of yield were measured.

91/R/WW/8

GRAIN TONNES/HECTARE

***** Tables of means *****

FOLIAR N

NONE	8.71
K20E	8.58
K20EU40E	8.41
U40E	8.12
K5M	8.64
K20M	8.63
K20EK20M	8.89
K20MK20L	8.48

Mean	8.58
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*** Standard errors of differences of means ***

FOLIAR N

0.113	min.rep
0.098	max-min

FOLIAR N

max-min	NONE v any of the remainder
min.rep	any of the remainder

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	33	0.179	2.1
GRAIN MEAN DM%	87.4		
PLOT AREA HARVESTED	0.00230		