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79/R/WW/7 Effects of Sulphur - W. Wheat

Rothamsted Research

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79/R/WW/7

WINTER WHEAT

EFFECTS OF SULPHUR

Object: To study the effects of sulphur on amino acid content, flour quality and yield of winter wheat - Webbs.

Sponsors: B.J. Miflin, M.A. Kirkman.

Design: 3 randomised blocks of 6 plots.

Whole plot dimensions: 2.66 x 7.62.

Treatments:

N S	Rates and times of nitrogen and sulphur fertilisers (kg element):			
	Nitrogen		Sulphur, as potassium sulphate	
	19 Apr as 'Nitro-Chalk'	29 June as urea	3 May	29 June
NEO S00	120	0	0	0
NEO SE0	120	0	20	0
NEL S00	120	80	0	0
NEL SE0	120	80	20	0
NEL S0L	120	80	0	20
NEL SEL	120	80	20	20

NOTE: Urea and potassium sulphate were applied, either singly or together, in 1000 l.

Basal applications: Manures: (10:23:23) at 250 kg. Weedkillers: Paraquat at 0.42 kg ion in 220 l. Mecoprop with bromoxynil and ioxynil (as 'Brittox' at 2.5 kg in 220 l).

Seed: Flinor, sown at 190 kg.

Cultivations, etc.: - Deep-tine cultivated twice: 31 Aug, 1978 and 1 Sept. Heavy spring-tine cultivated: 14 Sept. NPK applied: 17 Oct. Paraquat applied: 18 Oct. Disc harrowed: 23 Oct. Seed sown: 25 Oct. 'Brittox' applied: 14 May. Combine harvested: 30 Aug. Previous cropping: Barley 1977, barley 1978.

NOTE: The grain was tested for bread making quality, N and sulphur content.

79/R/WW/7

GRAIN TONNES/HECTARE

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

	N S	
NEO	S00	5.24
NEO	SE0	5.39
NEL	S00	5.27
NEL	SE0	5.26
NEL	S0L	5.60
NEL	SEL	5.15
MEAN		5.32

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

TABLE	N S
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SED	0.249

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.306	5.7

GRAIN MEAN DM% 87.2

PLOT AREA HARVESTED 0.00203