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72/R/WS/4 Spring Wheat Dwarf Varieties, N and Ccc

Rothamsted Research

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72/R/WS/4

SPRING WHEAT

DWARF VARIETIES, N AND CCC

Object: To study the effects of CCC (chlormequat) and a range of nitrogen levels on four semi-dwarf spring wheat varieties - Fosters Corner.

Sponsor: S.A.W. French.

Design: A single replicate of 4 x 4 x 4 in 4 blocks of 4 whole plots split into 4 sub plots, with split plot confounding of 3 factor interaction with blocks.

Whole plot dimensions: 2.16 x 29.6. Sub plot area harvested: 0.00080.

Treatments: All combinations of:-

Whole plots: 1. Varieties: Charles Peguy* (CP), Tobar (TO), 6WUK3 (W3), 6WUK4(W4).

* Formerly Benoist 257.

Sub plots: 2. N levels: 75, 150, 225, 300 kg as 'Nitro-Chalk'.
3. CCC: None, 1.1, 2.2, 3.3 kg in 340 l.

Basal applications: 630 kg (0:14:28). Weedkiller: Bromoxynil, ioxynil, dichlorprop and MCPA ('Tetroxone' at 5.6 l in 340 l).

Seed: Sown at 190 kg.

Cultivations, etc.: Deep-tine cultivated twice: 12 Nov, 1971.

Basal PK applied: 21 Mar, 1972. Seed drilled: 23 Mar. Weedkiller applied: 17 May. N applied: 1 May. CCC applied: 1 June. Combine harvested: 7 Sept. Previous crops: Fallow 1970, potatoes 1971.

NOTE: Plant counts were made shortly after germination, shoot counts in early June, and ear counts at ear emergence. Crop height was measured at harvest.

Standard errors per plot.

Grain, tonnes/hectare: Whole plot: 0.193 or 4.4% (6 d.f.)
Sub plot: 0.276 or 6.3% (18 d.f.)

