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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), Tobarì (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.)

72/R/WS/4

TABLES OF MEANS

GRAIN: TONNES/HECTARE

VARIETY	N: KG/HA				CCC: KG/HA				Mean
	75	150	225	300	0.0	1.1	2.2	3.3	
CP	5.61	5.47	5.12	4.93	5.52	5.19	5.04	5.37	5.28
TO	4.58	4.89	4.93	4.96	4.85	4.57	5.06	4.88	4.84
W3	2.33	2.41	2.72	2.66	2.35	2.51	2.70	2.58	2.53
W4	4.12	4.75	4.92	5.11	4.72	4.82	4.84	4.51	4.72
	N: KG/HA								
			75		4.17	4.06	4.18	4.23	4.16
			150		4.41	4.33	4.54	4.23	4.38
			225		4.53	4.17	4.44	4.55	4.42
			300		4.33	4.53	4.47	4.34	4.42
Mean					4.36	4.27	4.41	4.34	4.34

Mean D.M. %: 84.2

STANDARD ERRORS OF DIFFERENCES

VARIETY	N	CCC	VARIETY N	VARIETY CCC	N CCC
	0.137	0.097	0.097	0.217	0.217
Unless same level of VARIETY				0.195	0.195