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Numerical Results of the Field Experiments 1969

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69/R/W/5 - Gains, Seed Rates & N -

Rothamsted Research

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WINTER WHEAT

(69/R/W/5)

Effects of seed rates and N on the semi-dwarf variety Gaines,
Long Hoos I and II 1969.

Design: 4 randomised blocks of 16 plots.

Area of each plot: 0.0036. Area harvested: 0.0017.

Treatments: All combinations of:-

1. Varieties and seed rates: Cappelle at 168 lb (CM),
Gaines* at 112 lb (GL), 168 lb (GM), 224 lb (GH).
2. Nitrogen: 0.6 (N1), 1.2 (N2), 1.8 (N3), 2.4 cwt (N4)
as 'Nitro-Chalk' in spring.

* NOTE: Gaines (but not Cappelle) received 'Plantvax' (F461)
fungicide at 1.5 lb a.i. in 30 gals on 2 occasions.

Basal applications: 300 lb (0:20:20) broadcast by drill at
sowing. Weedkiller: Mecoprop at 42 oz and 2,4-D at 10.5 oz in
30 gals. Fungicides: Ethirimol at 1.5 lb in 30 gals.

Cultivations, etc.: Deep-tine cultivated: 23 Oct, 1968. Seed
drilled, basal PK compound applied: 24 Oct. 'Nitro-Chalk'
applied: 28 Apr, 1969. Weedkiller applied: 8 May. Ethirimol
applied: 4 June. 'Plantvax' applied: 18 June and 1 July.
Combine harvested: 25 Aug. Previous crops: Fallow 1967,
potatoes 1968.

NOTE: Samples were taken for dry weight determinations at ear
emergence and at harvest. Samples were also taken in
July for estimation of eyespot (*Cercospora herpotrichoides*)
and sharp eyespot (*Rhizoctonia solani*).

Standard error per plot.

Grain, cwt: 3.39 or 5.9% (45 d.f.)

SUMMARY OF RESULTS

GRAIN:CWT

	N1	N2	N3	N4	Mean
	(±1.70)				(±0.85)
CM	58.4	62.7	58.6	58.7	59.6
GL	61.8	63.2	59.1	56.7	60.2
GM	56.4	62.0	56.1	50.1	56.2
GH	57.4	56.6	54.3	48.3	54.1
Mean (±0.85)	58.5	61.2	57.0	53.5	57.5

Mean D.M.%: 81.1