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Numerical Results of the Field Experiments 1969

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69/R/0/1 - Growth Regulators & N - Oats

Rothamsted Research

Rothamsted Research (1970) 69/R/0/1 - *Growth Regulators & N - Oats* ; Numerical Results Of The Field Experiments 1969, pp 319 - 320 - DOI: <https://doi.org/10.23637/ERADOC-1-96>

WINTER OATS

(69/R/O/1)

Growth regulators X N, Fosters O and E VI 1969.

Design: 3 randomised blocks of 15 plots.

Area of each plot: 0.0036. Area harvested: 0.0019.

Treatments: All combinations of:-

1. Growth regulators: None (0), ethrel at 1.2 lb (E1), at 2.4 lb (E2), morphactin at 0.005 lb (M1), at 0.05 lb (M2). Each spray was applied in 30 gals.
2. Nitrogen: 0.5 (N1), 1.0 (N2), 1.5 (N3) cwt as 'Nitro-Chalk' top-dressed in spring.

Basal applications: 300 lb (0:20:20) broadcast by drill at sowing. Weedkillers: Paraquat at 0.5 lb ion in 25 gals. Mecoprop at 42 oz and 2,4-D at 10.5 oz in 30 gals.

Cultivations, etc.: Paraquat applied: 18 Oct, 1968.
Ploughed: 22 Oct. Rotary cultivated, seed drilled at 300 lb: 23 Oct. 'Nitro-Chalk' applied: 29 Apr, 1969. Mecoprop/2,4-D applied: 12 May. Growth regulators applied: 14 May. Combine harvested: 21 Aug. Variety: Maris Quest. Previous crops: Potatoes 1967, barley and oats 1968.

NOTE: Samples were taken at harvest for components of yield.

Standard error per plot.

Grain, cwt: 3.92 or 7.4% (27 d.f.)

SUMMARY OF RESULTS

GRAIN: CWT

	0	E1	E2	M1	M2	Mean
			(±2.26)			(±1.01)
N1	52.1	55.8	54.7	57.3	56.2	55.2
N2	53.1	56.3	51.4	55.2	56.6	54.5
N3	50.4	52.9	49.1	50.4	45.2	49.6
Mean (±1.31)	51.9	55.0	51.7	54.3	52.7	53.1

Mean D.M. %: 82.1