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Numerical Results of the Field Experiments 1969

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69/R/P/8 - Growth Regulators - Potatoes

Rothamsted Research

Rothamsted Research (1970) *69/R/P/8 - Growth Regulators - Potatoes* ; Numerical Results Of The Field Experiments 1969, pp 317 - 318 - DOI: <https://doi.org/10.23637/ERADOC-1-96>

POTATOES

(69/R/P/8)

Growth regulators, Great Knott III 1969.

Design: 4 randomised blocks of 7 plots.

Area of each plot: 0.0214. Area harvested: 0.0027.

Treatments: Growth regulators (in lb active ingredient in 40 gals):-

None		(O)
B-nine	2.0	(B)
Chlormequat	2.0	(C)
Ethrel	0.3	(E1)
Ethrel	1.0	(E2)
Morphactin	0.05	(M1)
Morphactin	0.01	(M2)

(Note rate M2 was less than rate M1)

Basal applications: 10.5 cwt (13:13:20). Weedkiller: Paraquat at 0.375 lb ion plus linuron at 0.75 lb in 37 gals. Fungicide: Mancozeb at 1.2 lb in 37 gals on 3 occasions. Insecticide: Demeton-s-methyl at 3.5 oz applied with first mancozeb spray.

Cultivations, etc.: Rotary cultivated twice: 13-23 Sept, 1968 and 21 Oct. Ploughed: 30 Dec-22 Jan, 1969. Basal NPK applied: 10 Apr. All plots rotary cultivated, potatoes machine planted: 18 Apr. Weedkiller applied: 13 May. Grubbed: 19 June. Growth regulators applied: 25 June. Earthed up: 27 June. Insecticide applied: 16 July. Fungicide applied: 16 July, 4 Aug, 21 Aug. Sprayed with undiluted BOV at 15 gals: 26 Sept. Haulm destroyed mechanically: 2 Oct. Lifted: 8 Oct. Variety: King Edward. Previous crops: Barley 1967, spring beans 1968.

NOTE: From July 17, 6 plants were taken from each plot every 3 weeks, for estimates of tuber number and size, leaf area and dry weights.

Standard error per plot.

Total tubers, tons: 1.217 or 7.7% (18 d.f.)

SUMMARY OF RESULTS

O	B	C	E1	E2	M1	M2	Mean
TOTAL TUBERS: TONS							
(± 0.608)							
17.01	17.09	17.10	15.08	14.39	14.96	14.99	15.80
% WARE							
93.5	89.3	93.7	90.3	83.5	92.7	93.5	90.9