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Yields of the Field Experiments 1973



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Rothamsted Research

Rothamsted Research (1974) 73/W/CS/11 - Soil Structure - Potatoes; Yields Of The Field Experiments 1973, pp 153 - 154 - DOI: https://doi.org/10.23637/ERADOC-1-98

73/W/CS/11

SOIL STRUCTURE

Object: To study the residual effects of peat, at a range of nitrogen levels, on the yield of potatoes - Woburn Stackyard II.

Sponsor: A.E. Johnston.

The eleventh year, potatoes.

For previous years see 64/C/20(t), 65/C/19(t), 66/C/11(t), 67/C/8(t), 68/C/31(t), 69/W/CS/11(t), 70/W/CS/11(t), 71/W/CS/11 and 72/W/CS/11(t).

Design: Single replicate of 5 x 4. Levels of peat in 4 randomised blocks of 5 plots.

Whole plot dimensions: 2.13 x 3.05. Area harvested: 0.00065.

Treatments: All combinations of:- 1. Peat (tonnes dry matter - total applied 1963	3-72): PEAT
None 8	0 8
55	55 1 1 0
110 165	165
2. Nitrogen fertiliser (kg N)	N
None	0
100 .	100
200	200
300	300

Basal applications: Manures: Ground chalk at 2.5 tonnes. P at 85 kg, as triple superphosphate, K at 300 kg, as potassium bicarbonate, Mg at 55 kg as magnesium sulphate. Weedkiller: Linuron at 0.85 kg with paraquat at 0.42 kg ion in 340 l. Insecticide: Menazon at 0.28 kg in 340 l. Insecticide with fungicide: Menazon at 0.28 kg plus mancozeb at 1.3 kg in 340 l.

Seed: Pentland Crown.

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Cultivations, etc.:- Ground chalk applied, plots dug by hand: 28 Nov, 1972. P, K and Mg applied, plots rotary cultivated and potatoes planted: 6 Apr, 1973. Weedkiller applied: 9 May. Insecticide applied: 15 June. Insecticide with fungicide applied: 18 June. Lifted: 25 Sept.

NOTE: Soil samples were taken at harvest for analysis of P and K.

TABLES OF MEANS

TOTAL TUBERS: TONNES/HECTARE

	PEAT						
	.2 000,0	8	55	110	165	Mean	
N TAKES	term of the standard of the st						
0 100 200 300	34.8 48.2 63.3 59.1	36.2 54.2 56.5 65.3	36.5 53.3 60.5 83.0	35.9 57.9 72.8 81.1	35.1 54.5 67.3 83.6	35.7 53.6 64.1 74.4	
Mean /	51.3	53.0	58.3	61.9	60.1	56.9	