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Yields of the Field Experiments 1974

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74/W/CS/11 Soil Structure - Wheat

74/W/CS/11 Soil Structure - Wheat, Rothamsted Research (1975) Yields Of The Field Experiments 1974, pp 153 - 154 - DOI: <https://doi.org/10.23637/ERADOC-1-119>

74/W/CS/11

SOIL STRUCTURE

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

Sponsor: A.E. Johnston.

The twelfth year, winter wheat.

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, 72/W/CS/11(t) and 73/W/CS/11.

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: 0.00026.

Treatments: All combinations of:-

1. Peat (tonnes dry matter - total applied 1963-72):

	PEAT
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None	0
8	8
55	55
110	110
165	165

2. Nitrogen fertiliser (kg N), cumulative to previous treatments:

	N
None	0
50	50
100	100
150	150

Basal applications: Manures: P at 85 kg, as triple superphosphate, K at 300 kg, as potassium bicarbonate, Mg at 55 kg as magnesium sulphate. Weedkiller: Ioxynil at 0.42 kg and mecoprop at 1.26 kg in 340 l.

Seed: Cappelle, sown at 150 kg.

Cultivations, etc.: - P, K and Mg applied, plots dug by hand: 28 Sept, 1973.

Seed sown: 8 Oct. Weedkiller applied: 8 Apr, 1974. N applied: 24 Apr. Harvested by hand: 19 July.

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NOTE: Because birds started to attack the green ears the crop was harvested green at full ear emergence and yields of total produce only were taken. Three plots N - 0, PEAT - 0, 8 and 165 were so badly damaged that their yields are not presented.

TABLE OF MEANS

GREEN CROP, DRY MATTER: TONNES/HECTARE

	PEAT				
	0	8	55	110	165
N					
0	*	*	2.74	4.46	*
50	8.09	7.81	7.55	6.84	5.65
100	10.87	9.47	9.54	8.68	9.15
150	13.92	12.40	12.60	11.62	11.46

* Yields not presented.