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# Yields of the Field Experiments 1972

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## 72/W/CS/11 Soil Structure - Barley

### Rothamsted Research

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72/W/CS/11

SOIL STRUCTURE

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

Sponsor: A.E. Johnston.

The tenth year, barley.

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) and 71/W/CS/11.

Design: 4 randomised blocks of 5 plots, each block containing all levels of peat.

Whole plot dimensions: 2.13 x 3.05.

Treatments: All combinations of:-

1. Peat (tonnes dry matter/hectare)

Applied 1963-68	1972	Total	
None	None	None	(0)
7.8	None	7.8	(1)
47.0	7.8	54.8	(2)
94.0	16.0	110.0	(3)
141.0	24.0	165.0	(4)

2. Nitrogen: None, 50, 100, 150 kg N as 'Nitro-Chalk'.

Basal applications: 2.5 tonnes ground chalk, 84 kg P as triple superphosphate, 280 kg K as potassium bicarbonate, 56 kg Mg as magnesium sulphate. Weedkiller: Dichlorprop and MCPA ('Mephetol Plus' at 5.6 l in 340 l).

Seed: Julia, dressed with ethirimol, sown at 170 kg.

Cultivations, etc.: Ground chalk, P, K, Mg and peat applied, plots dug by hand: 7 Dec, 1971. Seed drilled, N applied: 14 Mar, 1972. Weedkiller applied: 17 May.

NOTE: Birds caused severe damage to the crop and yields were not taken.