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70/W/CS/11 Soil Structure 2 - S. Beans

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SOIL STRUCTURE 2

(70/W/CS/11)

Effect of peat (annual applications 1963 - 1968) Woburn, Stackyard II, plot 6 of the Continuous Barley site, the eighth year, Spring beans.

Design: 4 randomised blocks of 5 plots with weedkiller treatments to blocks.

Area of each plot: 0.0016. Area harvested: 0.0016.

Treatments: All combinations of:-

Blocks: 1. Weedkiller: No spray (SD), simazine at 0.84 lb in 100 gals 1969 and 0.75 lb in 60 gals 1970 (SA), 1.68 lb in 200 gals 1969 and none in 1970 (SB), 0.42 lb in 50 gals 1969 and 1.50 lb in 120 gals 1970 (SC).

Whole plots: 2. Residues of Peat: None (0), peat at 62.5 cwt dry matter applied in 1965 only (Sb65). Annual dressings of peat repeated 1963 - 1968 at 62.5 (DG1), 125 (DG2), 187.5 cwt dry matter (DG3) dug in to a depth of 8 inches.

Basal applications: 20 cwt ground chalk. Triple superphosphate, potassium bicarbonate, and magnesium sulphate to supply 75 lb P, 250 lb K, 50 lb Mg applied to the seedbed before drilling. Insecticide: Dimethoate at 4.8 fl oz in 40 gals on one occasion, menazon 0.25 lb in 40 gals on two occasions.

Cultivations, etc.: Ground chalk, P, K, Mg applied, plots dug: 16 Dec, 1969. Seed drilled at 200 lb, weedkiller treatments applied: 28 Apr, 1970. Dimethoate applied: 17 June. Menazon applied: 6 July, 29 July. Harvested by hand: 10 Sept. Variety: Tarvin.

NOTES: (1) For previous years' results see 'Results' 64/C/20, 65/C/19, 66/C/11, 67/C/8, 68/C/31 and 69/W/CS/11.

(2) Soil samples for PK analysis were taken after harvest.

70/W/CS/11

SUMMARY OF RESULTS

	0	Sb65	DG1	DG2	DG3	Mean
GRAIN: CWT						
SO	11.1	10.7	13.9	17.8	18.3	14.4
SA	4.7	6.1	11.7	14.4	16.6	10.7
SB	7.4	7.3	13.7	15.5	13.2	11.4
SC	10.4	10.2	15.9	15.8	14.3	13.3
Mean	8.4	8.6	13.8	15.9	15.6	12.4
STRAW: CWT						
SO	24.0	21.2	18.9	22.6	23.4	22.0
SA	16.5	16.2	19.0	22.1	20.7	18.9
SB	19.2	20.5	19.9	19.2	18.5	19.5
SC	19.6	20.0	20.8	21.8	22.5	20.9
Mean	19.8	19.5	19.7	21.4	21.3	20.3

Mean D.M. %: Grain: 82.4
 Straw: 78.0