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69/W/CS/11 - Soil Structure - Beans

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SOIL STRUCTURE 2

(69/W/CS/11)

Effect of peat (annual applications 1963-1968) Woburn, Stackyard II, plot 6 of the Continuous Barley Site, spring beans 1969 the seventh year.

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 (S0), simazine at 0.42 lb in 50 gals (S1), 0.84 lb in 100 gals (S2), 1.68 lb in 200 gals (S4).
- Whole plots: 2. Residues of Peat: None (0), peat at 62.5 cwt dry matter applied in 1965 only (Sb 65). Annual dressings of peat repeated 1963-1968 at 62.5 (DG 1), 125 (DG 2), 187.5 cwt dry matter (DG 3) dug in to a depth of 8 inches.

NOTE: The 1968 sub plot test of wheel-marks was ignored in 1969 yields being taken from whole plots.

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.

Cultivations, etc.: Ground chalk, P,K,Mg applied: 3 Feb, 1969.
Plots dug: 6 Feb. Seed drilled at 200 lb: 11 Feb. Weedkiller treatments applied: 16 Feb. Harvested by hand: 29 Aug.
Variety: Tarvin.

- NOTES: (1) For previous years' results see 'Results' 64/C/20, 65/C/19, 66/C/11, 67/C/8 and 68/C/31.
(2) Crop samples were taken on 3 occasions in June for growth studies.
(3) Soil samples for PK analysis were taken in September.

SUMMARY OF RESULTS

	0	Sb 65	DG1	DG2	DG3	Mean
GRAIN:CWT						
S0	19.7	18.9	21.0	22.5	24.8	21.4
S1	17.6	20.2	23.7	22.6	23.9	21.6
S2	12.7	12.9	19.3	22.2	22.9	18.0
S4	11.8	15.0	19.2	20.0	23.1	17.8
Mean	15.4	16.7	20.8	21.9	23.7	19.7

Mean D.M.%: 76.9

	0	Sb 65	DG1	DG2	DG3	Mean
STRAW:CWT						
S0	34.3	37.9	32.5	30.7	33.1	33.7
S1	30.3	36.9	32.5	29.6	40.6	34.0
S2	37.1	35.0	29.8	34.1	36.2	34.5
S4	29.0	31.7	30.6	28.4	29.6	29.9
Mean	32.7	35.4	31.4	30.7	34.9	33.0

Mean D.M.%: 58.1