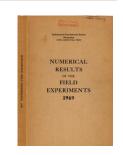
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Numerical Results of the Field Experiments 1969



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Rothamsted Research

Rothamsted Research (1970) 69/W/CS/11 - Soil Structure - Beans; Numerical Results Of The Field Experiments 1969, pp 138 - 139 - DOI: https://doi.org/10.23637/ERADOC-1-96

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 (SO), simazine at 0.42 lb in 50 gals (S1), 0.84 lb in 100 gals (S2), 1.68 lb in 200 gals (S4).

Whole 2. Residues of Peat: None (0), peat at 62.5 cwt dry plots: 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.

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SUMMARY OF RESULTS

	0	Sb 65	DG1	DG2	DG3	Mean
		GRAI	N:CWT			
\$0 \$1 \$2 \$4	19.7 17.6 12.7 11.8	18.9 20.2 12.9 15.0	21.0 23.7 19.3 19.2	22.5 22.6 22.2 20.0	24.8 23.9 22.9 23.1	21.4 21.6 18.0 17.8
Mean	15.4	16.7	20.8	21.9	23.7	19.7
Mean D.M.	%: 76.9					
		SI	RAW:CWT			
\$0 \$1 \$2 \$4	34.3 30.3 37.1 29.0	37.9 36.9 35.0 31.7	32.5 32.5 29.8 30.6	30.7 29.6 34.1 28.4	33.1 40.6 36.2 29.6	33.7 34.0 34.5 29.9
Mean	32.7	35.4	31.4	30.7	34.9	33.0

Mean D.M.%: 58.1