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Numerical Results of the Field Experiments 1970



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70/R/CS/58 Crop Sequences and Take-all - S. Wheat, S. Beans, Fallow

Rothamsted Research

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CROP SEQUENCES AND TAKE-ALL

(70/R/CS/58)

Harwoods Piece 1970, the first year, spring wheat, spring beans and fallow.

Design: 3 randomised blocks of 3 plots, split into 4.

Area of each plot: 0.0671. Area harvested (spring wheat only): 0.0107.

Treatments: All combinations of:-

Whole plots: 1. Crops: Spring wheat (WS), spring beans (BE), fallow (F).

Sub plots: 2. Sampling: None two sub-plots per plot (0), sampled two sub-plots per plot (S). 6 samples of 6 in. of row removed on each of eight occasions (May - August).

Basal applications: Weedkiller: Tri-allate at 1.25 lb in 20 gals. Spring wheat: 390 lb (20:10:10) combine drilled. Weedkiller: 2,4-D at 0.5 lb and dichlorprop at 2 lb in 20 gals.

Spring beans: 370 lb (0:14:28) placement drilled. Weedkiller: Simazine at 1 lb in 40 gals. Insecticide: Phorate at 28 oz in granules.

Cultivations, etc.: Ploughed: 27 Oct, 1969. Tri-allate applied: 19 Apr, 1970.

Spring wheat: Seed combine drilled at 170 lb: 22 Apr, 1970. 2,4-D/dichlorprop applied: 27 Apr. Combine harvested: 29 Aug. Variety: Kolibri.

Spring beans: Seed placement drilled at 200 lb: 20 Apr, 1970. Simazine applied: 18 May. Phorate applied: 18 June. Combine harvested: 4 Sept. Variety: Maris Bead.

Previous crops: Spring wheat 1968 and 1969.

NOTE: Soil and crop samples were taken throughout the season and the following observations made:Estimates of take-all (Ophiobolus graminis) in the soil, in wheat seedlings and in wheat plants.

Growth stages of wheat.

Height of beans at each sampling.

Dry weights of tops and roots of seedlings.

70/R/CS/58

SUMMARY OF RESULTS

SPRING WHEAT

GRAIN: CWT

0	S	Mean
		A STATE OF THE STA
14.5	14.4	14.4

Mean D.M. %: 85.0