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71/R/CS/6 Wheat After Intensive Barley - Wheat

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71/R/CS/6

WHEAT AFTER INTENSIVE BARLEY

Object: To study the effects of different periods of pre-cropping with barley on yields and incidence of take-all (*Ophiobolus graminis*) in wheat - Little Knott I.

The eleventh year, winter wheat.

For previous years see 61/C/8(t), 62/C/7, 63-66/C/2, 67/C/2(t), 68/C/2(t), 69/R/CS/6(t) and 70/R/CS/6(t).

Whole plot dimensions: 4.27 x 20.1. Sub plot area harvested: 0.00266.

Blocks were split across all plots for a test of none (U) v. ground chalk at 12.6 tonnes (L).

Basal applications: Manures: 251 kg (0:14:28) combine drilled, 605 kg 'Nitro-Chalk' in spring. Weedkillers: Paraquat at 0.84 kg ion in 225 l. Terbutryne and related triazines ('Prebane' at 4.48 kg in 225 l).

Cultivations, etc.: Paraquat applied: 11 Sept, 1970. Ground chalk applied to half plots: 12 Sept. Ploughed: 23 Sept. Seed drilled at 179 kg: 7 Oct. 'Prebane' applied: 10 Oct. N applied: 13 Apr, 1971. Combine harvested: 25 Aug. Variety: Joss Cambier.

NOTE: Estimates of take-all (*Ophiobolus graminis*) were made in April and early July.

Standard errors per plot.

Grain, tonnes/hectare: Whole plot: 0.461 or 7.7% (39 d.f.)
Sub plot: 0.626 or 10.4% (40 d.f.)

