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74/R/CS/6 Wheat After Intensive Barley - Wheat, Beans

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74/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 (*Gaeumannomyces graminis*), in wheat - Little Knott I.

Sponsors: D. Hornby, G.A. Salt.

The 14th year, winter wheat, beans.

NOTE: Only one quarter of the original experiment is continued since 1973.

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), 70/R/CS/6(t), 71/R/CS/6(t), 72/R/CS/6(t) and 73/R/CS/6.

Design: 2 replicates of 10 plots fully randomised.

Whole plot dimensions: 4.27 x 20.1. Plot area harvested: 0.00572.

Treatments: Crop sequence (1961-74):

CROPSQN

O	BE	B	B	B	B	B	B	WW	F	WW	WW	WW	WW	1
WS	O	BE	B	B	B	B	B	WW	WW	WW	F	WW	WW	2
O	WS	O	BE	B	B	B	B	WW	WW	WW	F	BE	WW	3
BE	O	WS	O	BE	B	B	B	WW	WW	WW	WW	F	BE	4
WS	BE	O	WS	O	BE	B	B	WW	WW	WW	WW	WW	F	5
WS	WS	BE	O	WS	O	BE	B	WW	WW	WW	WW	WW	WW	6
B	B	B	B	B	B	B	B	WW	WW	WW	WW	WW	WW	7
WS	WS	WS	WS	WS	WS	WS	WS	WW	WW	WW	WW	WW	WW	8
WS	WW	WW	WW	WW	WW	WW	F	WW	WW	WW	WW	WW	WW	9
BE	WW	P	B	BE	WW	P	B	F	WW	WW	WW	WW	WW	10

where: B = barley, WS = spring wheat, WW = winter wheat, BE = beans, O = oats, P = potatoes, F = fallow.

Basal applications:

Wheat: Manures: (0:14:28) at 250 kg combine drilled, 'Nitro-Chalk' at 500 kg. Weedkillers: Chlortoluron ('Dicurane 80 WP' at 4.5 kg in 440 l) and dicamba with mecoprop and MCPA ('Banlene Plus' at 5.6 l in 370 l).

Beans: Manures: (0:14:28) at 400 kg placement drilled. Insecticide: Phorate at 1.1 kg as granules.

Seed: Wheat: Cappelle, sown at 200 kg.

Beans: Minor, sown at 220 kg.

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Cultivations, etc.: - All plots ploughed: 29 Sept, 1973.

Wheat: Power harrowed and seed sown: 22 Oct. 'Dicurane' applied:
25 Oct. N applied: 16 Apr, 1974. 'Banlene Plus' applied: 7 May.
Combine harvested: 29 Aug.

Beans: Power harrowed, seed sown and spring-tine cultivated: 27 Mar,
1974. Insecticide applied: 13 June. Combine harvested: 14 Oct.

Fallow plots: Power harrowed: 27 Mar, 1974. Rotary cultivated:
11 June.

NOTE: The Field Plots Committee has decided that yields from this
experiment should no longer be published because of known soil
irregularities on the small area of the original experiment
remaining.