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82/R/CS/212 Seasonal Effects of Take-all - S. Beans, W. Wheat

Rothamsted Research

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82/R/CS/212

SEASONAL EFFECTS OF TAKE-ALL

Object: To study the incidence of take-all (*Gaeumannomyces graminis*) in continuous w. wheat and in first and second w. wheats after a break - Great Harpenden I.

Sponsor: D. Hornby.

The fifth year, s. beans, w. wheat.

For previous years see 78-81/R/CS/212.

Design: 3 randomised blocks of 4 plots.

Whole plot dimensions: 5.33 x 31.4.

Treatments:

PREVCROP Previous crops before w. wheat 1982:

	1978	1979	1980	1981
CONT W	W	W	W	W
FIRST W	W	W	BE	W
BEANS	BE	W	W	BE

BE = s. beans, W = w. wheat

NOTE: An additional crop sequence was in s. beans 1982, yields not taken.

Standard applications:

W. wheat: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 350 kg. Weedkillers: Dicamba, mecoprop and MCPA (as 'Poly-Farmon' at 5.0 l) in 250 l.

S. beans: Weedkillers: Trietazine at 1.0 kg with simazine at 0.14 kg in 250 l. Insecticide: Phorate at 2.2 kg, combine drilled.

Seed: W. wheat: Avalon, sown at 200 kg.

S. beans: Minden, sown at 210 kg.

Cultivations, etc.:-

Both crops: Ploughed: 1 Oct, 1981. Spring-tine cultivated: 13 Oct.

Rotary harrowed: 14 Oct.

W. wheat: Seed sown: 16 Oct. N and weedkiller applied: 15 Apr, 1982.

Combine harvested: 20 Aug.

S. beans: Rotary harrowed, seed sown: 24 Mar, 1982. Weedkillers

applied: 27 Mar. Combine harvested: 8 Sept.

NOTE: Take-all was assessed in soil, wheat plants, and in *Agropyron repens* rhizomes. Weed counts were made.

82/R/CS/212

WHEAT GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

PREVCROP	CONT W	FIRST W	BEANS	MEAN
	3.14	4.03	5.59	4.25

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	PREVCROP
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SED	0.398

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	4	0.487	11.5

GRAIN MEAN DM% 80.9

PLOT AREA HARVESTED 0.00434