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

Rothamsted Research

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83/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 sixth year, s. beans, w. wheat.

For previous years see 78-82/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 1983:

	1978	1979	1980	1981	1982
CONT W	W	W	W	W	W
FIRST W	BE	W	W	BE	W
BEANS	W	BE	W	W	BE

BE = s. beans, W = w. wheat

NOTE: An additional crop sequence was in s. beans 1983, yields not taken.

Standard applications:

W. wheat: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 350 kg. Weedkiller: Methabenzthiazuron at 3.2 kg in 250 l.

Seed: W. wheat: Avalon, sown at 200 kg.
S. beans: Minden, sown at 280 kg.

Cultivations, etc.:-

Both crops: Ploughed: 9 Sept, 1982.

W. wheat: Rotary harrowed, PK applied, seed sown: 23 Sept. Weedkiller applied: 24 Sept. N applied: 16 Apr, 1983. Combine harvested: 10 Aug.

S. beans: Spring-tine cultivated: 8 Mar, 1983. Rotary harrowed, seed sown: 9 Mar. Combine harvested: 12 Aug.

NOTE: Take-all was assessed in soil and in wheat plants. Weed counts were made.

83/R/CS/212

W.WHEAT

GRAIN TONNES/HECTARE

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

PREVCROP	CONT W	FIRST W	BEANS	MEAN
	7.80	5.83	8.05	7.23

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

TABLE	PREVCROP
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SED	0.549

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

STRATUM	DF	SE	CV%
BLOCK.WP	4	0.672	9.3

GRAIN MEAN DM% 87.0

PLOT AREA HARVESTED 0.00434