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80/R/CS/212 Seasonal Effects of Take-all

Rothamsted Research

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80/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 third year, s. beans, w. wheat.

For previous years see 78-79/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 1980:

	1978	1979
W W	W	W
W BE	W	BE
BE W	BE	W

BE = s. beans, W = w. wheat

NOTE: An additional crop sequence was in s. beans 1980, yields not taken.

Basal applications: Manures: Chalk at 7.5 t. Weedkiller: Glyphosate at 1.5 kg in 220 l.

Standard applications:

Wheat: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 350 kg. Weedkillers: Methabenzthiazuron at 3.1 kg in 220 l. Mecoprop with bromoxynil and ioxynil (as 'Brittox' at 3.5 l) in 880 l. Insecticide: Demeton-s-methyl at 0.24 l in 250 l.
Beans: Weedkillers: Trietazine with simazine (as 'Remtal SC' at 2.5 l) in 250 l.

Seed: Wheat: Flanders, sown at 190 kg.
Beans: Minden, sown at 180 kg.

Cultivations, etc.:-

All plots: Glyphosate applied: 24 Sept, 1979. Chalk applied: 9 Oct.
Ploughed: 11 Oct.

Wheat: Rotary harrowed, seed sown: 17 Oct. Methabenzthiazuron applied: 20 Oct. N applied: 11 Apr, 1980. 'Brittox' applied: 2 Apr.
Insecticide applied: 24 June. Combine harvested: 22 Aug.

Beans: Rotary harrowed, seed sown: 5 Mar, 1979. Weedkillers applied: 21 Mar. Combine harvested: 17 Sept.

NOTE: Take-all in soil and plants was assessed throughout the season.

80/R/CS/212

GRAIN TONNES/HECTARE

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

PREVCROP	W W	W BE	BE W	MEAN
	5.28	6.23	6.10	5.87

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

TABLE	PREVCROP
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SED	0.183

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

STRATUM	DF	SE	CV%
BLOCK.WP	4	0.224	3.8

GRAIN MEAN DM% 83.9

PLOT AREA HARVESTED 0.00434