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

Rothamsted Research

Rothamsted Research (1985) *84/R/CS/212 Seasonal Effects of Take-all - W. Wheat, S. Beans ; Yields Of The Field Experiments 1984*, pp 133 - 134 - DOI: <https://doi.org/10.23637/ERADOC-1-32>

84/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 seventh year, s. beans, w. wheat.

For previous years see 78-83/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 1984:

	1978	1979	1980	1981	1982	1983
CONT W	W	W	W	W	W	W
FIRST W	BE	W	W	W	BE	W
BEANS	W	BE	W	W	W	BE

BE = s. beans, W = w. wheat

NOTE: An additional crop sequence was in s. beans 1984, yields not taken.

Standard applications:

Both crops: Weedkiller: Chlortoluron at 3.5 kg in 250 l.

W. wheat: Manures: (0:24:24) at 310 kg, combine drilled. 'Nitro-Chalk' at 350 kg. Weedkillers: Cyanazine at 0.3 l with mecoprop at 2.0 l in 250 l.

Seed: W. wheat: Avalon, sown at 190 kg.

S. beans: Minden, sown at 200 kg.

Cultivations, etc.:-

Both crops: Ploughed: 16 Sept, 1983. Chlortoluron applied: 27 Sept.

W. wheat: Spring-tine cultivated twice, seed sown: 23 Sept, 1983.

N applied, cyanazine with mecoprop applied: 12 Apr, 1984. Combine harvested: 21 Aug.

S. beans: Deep spring-tine cultivated: 20 Mar, 1984. Rotary harrowed, seed sown: 21 Mar. Combine harvested: 31 Aug.

NOTE: Take-all was assessed in soil and in w. wheat plants.

84/R/CS/212

GRAIN TONNES/HECTARE

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

PREVCROP	
CONT W	5.79
FIRST W	5.59
BEANS	6.16
MEAN	5.85

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

TABLE	PREVCROP
SED	0.161

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

STRATUM	DF	SE	CV%
BLOCK.WP	4	0.198	3.4

GRAIN MEAN DM% 86.8

PLOT AREA HARVESTED 0.00434