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# Yields of the Field Experiments 1978



Full Table of Content

## 78/R/CS/212 Seasonal Effects of Take-all - Beans, Wheat

## **Rothamsted Research**

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#### 78/R/CS/212

SEASONAL EFFECTS OF TAKE-ALL

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

Sponsor: D. Hornby.

The first year, beans, wheat.

Design: 3 randomised blocks of 4 plots.

Whole plot dimensions: 5.33 x 31.39.

Treatments:

1234

CRP SEQ Crop sequences:

1978	1979	1980	1981	1982	1983
W	W	W	W	W	W
W	BE	W	W	BE	W
W	W	BE	W	W	BE
BE	W	W	BE	W	W

BE = spring beans, W = wheat

NOTE: (1) Yields are recorded from wheat only.

(2) In this, the first year, yields were recorded from the separate sequences although they do not yet differ in treatment.

Standard applications:-

Wheat: Manures: (0:20:20) at 310 kg. 'Nitra-shell 34' at 260 kg. Weedkillers: Mecoprop, bromoxynil and ioxynil ('Brittox' at 3.5 kg) in 220 l. Beans: Insecticide: Pirimicarb at 0.14 kg in 220 l.

Seed: Wheat: Flanders, sown at 190 kg. Beans: Minden, sown at 200 kg.

Cultivations, etc.:-

All plots: Chisel ploughed: 23 Aug, 1977. Heavy spring-tine cultivated: 21 Oct. Spring-tine cultivated: 24 Oct.

Wheat: Seed sown: 24 Oct. N applied: 8 May, 1978. Weedkillers applied: 11 May. Combine harvested: 13 Sept.

Beans: Rotary harrowed, seed sown: 8 Apr, 1978. Tractor hoed twice: 19 May, 8 June. Insecticide applied: 7 July. Combine harvested: 25 Sept.

Previous crops: W. Oats, 1976, Potatoes 1977.

NOTE: Soil and plant samples were taken throughout the season. An additional soil sample was taken after harvest. Samples were assessed for take-all.

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78/R/CS/212							
WINTER WHEAT							
GRAIN TONNES/	HECTARE						
***** TABLES (	OF MEANS	****					
CRP SEQ	1 7.05	6.5	2	3 6.58			
***** STANDARI	D ERRORS (	OF DIFFI	EREN	CES OF MEANS	***	**	
TABLE	CRP	SEQ					
SED	0.	184					
***** STRATUM	STANDARD	ERRORS	AND	COEFFICIENT	S OF	VARIATION	****
STRATUM		DF		SE		CV%	
BLOCK.WP		4		0.226		3.4	
GRAIN MEAN DM9	84.5						
PLOT AREA HARV	ESTED 0.	00434			*		

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