Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1978



Full Table of Content

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

Rothamsted Research

Rothamsted Research (1979) 78/R/CS/212 Seasonal Effects of Take-all - Beans, Wheat; Yields Of The Field Experiments 1978, pp 292 - 293 - DOI: https://doi.org/10.23637/ERADOC-1-30

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:

CRP SEQ	Crop sequences:					
	1978	1979	1980	1981	1982	1983
1	W	W	W	W	W	W
2	W	BE	W	W	BE	W
3	W	W	BE	W	W	BE
4	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 1.

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.

6.73

78/R/CS/212

WINTER WHEAT

GRAIN TONNES/HECTARE

**** TABLES OF MEANS ****

CRP SEQ 1 2 3 7.05 6.56 6.58

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

TABLE CRP SEQ
SED 0.184

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

 STRATUM
 DF
 SE
 CV%

 BLOCK.WP
 4
 0.226
 3.4

GRAIN MEAN DM% 84.5

PLOT AREA HARVESTED 0.00434