

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 readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1979

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1980) *79/R/CS/212 Seasonal Effects of Take-all - Beans, Wheat* ; Yields Of The Field Experiments 1979, pp 222 - 223 - DOI: <https://doi.org/10.23637/ERADOC-1-45>

79/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 second year, beans, wheat.

For previous year see 78/R/CS/212.

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: Yields are recorded from wheat only, and means are presented for the separate sequences although treatments of CRP SEQ 1 and 3 do not yet differ.

Standard applications:-

Wheat: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 350 kg. Weedkiller: Mecoprop at 2.5 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 220 kg.

Cultivations, etc.:-

All plots: Ploughed: 13 Oct, 1978.
Wheat: Rotary harrowed, seed sown: 16 Oct, 1978. N applied: 23 Apr, 1979.
Weedkiller applied: 10 May. Combine harvested: 29 Aug.
Beans: Rotary harrowed, seed sown: 23 Apr, 1979. Tractor hoed: 6 June.
Insecticide applied: 22 June. Combine harvested: 20 Sept.

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

79/R/CS/212

WHEAT

GRAIN TONNES/HECTARE

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

CRP SEQ	1	3	4	MEAN
	5.83	5.70	7.03	6.19

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

TABLE	CRP SEQ
SED	0.136

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

STRATUM	DF	SE	CV%
BLOCK.WP	4	0.166	2.7

GRAIN MEAN DM% 85.6

PLOT AREA HARVESTED 0.00434