

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 1983

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1984) *83/R/CS/212 Seasonal Effects of Take-all - S. Beans, W. Wheat* ; Yields Of The Field Experiments 1983, pp 130 - 131 - DOI: <https://doi.org/10.23637/ERADOC-1-44>

83/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 sixth year, s. beans, w. wheat.

For previous years see 78-82/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 1983:				
	1978	1979	1980	1981	1982
CONT W	W	W	W	W	W
FIRST W	BE	W	W	BE	W
BEANS	W	BE	W	W	BE

BE = s. beans, W = w. wheat

NOTE: An additional crop sequence was in s. beans 1983, yields not taken.

Standard applications:

W. wheat: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 350 kg. Weedkiller: Methabenzthiazuron at 3.2 kg in 250 l.

Seed: W. wheat: Avalon, sown at 200 kg.
S. beans: Minden, sown at 280 kg.

Cultivations, etc.:-

Both crops: Ploughed: 9 Sept, 1982.

W. wheat: Rotary harrowed, PK applied, seed sown: 23 Sept. Weedkiller applied: 24 Sept. N applied: 16 Apr, 1983. Combine harvested: 10 Aug.

S. beans: Spring-tine cultivated: 8 Mar, 1983. Rotary harrowed, seed sown: 9 Mar. Combine harvested: 12 Aug.

NOTE: Take-all was assessed in soil and in wheat plants. Weed counts were made.

83/R/CS/212

W.WHEAT

GRAIN TONNES/HECTARE

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

PREVCROP	CONT W	FIRST W	BEANS	MEAN
	7.80	5.83	8.05	7.23

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

TABLE	PREVCROP
-----	-----
SED	0.549

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

STRATUM	DF	SE	CV%
BLOCK.WP	4	0.672	9.3

GRAIN MEAN DM% 87.0

PLOT AREA HARVESTED 0.00434