

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 1980

[Full Table of Content](#)



80/R/CS/212 Seasonal Effects of Take-all

Rothamsted Research

Rothamsted Research (1981) *80/R/CS/212 Seasonal Effects of Take-all ; Yields Of The Field Experiments 1980*, pp 170 - 171 - DOI: <https://doi.org/10.23637/ERADOC-1-31>

80/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 third year, s. beans, w. wheat.

For previous years see 78-79/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 1980:

1978 1979

W W	W	W
W BE	W	BE
BE W	BE	W

BE = s. beans, W = w. wheat

NOTE: An additional crop sequence was in s. beans 1980, yields not taken.

Basal applications: Manures: Chalk at 7.5 t. Weedkiller: Glyphosate at 1.5 kg in 220 l.

Standard applications:

Wheat: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 350 kg. Weedkillers: Methabenzthiazuron at 3.1 kg in 220 l. Mecoprop with bromoxynil and ioxynil (as 'Brittox' at 3.5 l) in 880 l. Insecticide: Demeton-s-methyl at 0.24 l in 250 l. Beans: Weedkillers: Trietazine with simazine (as 'Remtal SC' at 2.5 l) in 250 l.

Seed: Wheat: Flanders, sown at 190 kg.
Beans: Minden, sown at 180 kg.

Cultivations, etc.:-

All plots: Glyphosate applied: 24 Sept, 1979. Chalk applied: 9 Oct.
Ploughed: 11 Oct.

Wheat: Rotary harrowed, seed sown: 17 Oct. Methabenzthiazuron applied: 20 Oct. N applied: 11 Apr, 1980. 'Brittox' applied: 2 Apr.
Insecticide applied: 24 June. Combine harvested: 22 Aug.

Beans: Rotary harrowed, seed sown: 5 Mar, 1979. Weedkillers applied: 21 Mar. Combine harvested: 17 Sept.

NOTE: Take-all in soil and plants was assessed throughout the season.

80/R/CS/212

GRAIN TONNES/HECTARE

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

PREVCROP	W W	W BE	BE W	MEAN
	5.28	6.23	6.10	5.87

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

TABLE	PREVCROP
-----	-----
SED	0.183

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

STRATUM	DF	SE	CV%
BLOCK.WP	4	0.224	3.8

GRAIN MEAN DM% 83.9

PLOT AREA HARVESTED 0.00434