

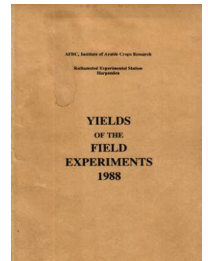
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1988

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1989) *88/R/CS/212 Seasonal Effects of Take-all - W. Wheat, S. Beans* ; Yields Of The Field Experiments 1988, pp 90 - 91 - DOI: <https://doi.org/10.23637/ERADOC-1-43>

88/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, second and third w. wheats after a break - Great Harpenden I.

Sponsors: D. Hornby, R.J. Gutteridge.

The 11th year, s. beans, w. wheat.

For previous years see 78-87/R/CS/212.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 5.33 x 10.7.

Treatments:

PREVCROP Previous crops before w. wheat 1988:

	78	79	80	81	82	83	84	85	86	87
W8 W W	W	W	W	W	W	W	W	W	W	W
W1 W BE	BE	W	W	BE	W	W	BE	W	W	BE
BE BE W	W	BE	W	W	BE	W	W	BE	BE	W
W2 BE W	W	W	BE	W	W	BE	W	W	BE	W
W8 BE W	W	W	W	W	W	W	W	W	BE	W
W1 W W	BE	W	W	BE	W	W	BE	W	W	W
W2 W W	W	W	BE	W	W	BE	W	W	W	W

BE = s. beans, W = w. wheat

NOTE: One additional crop sequence was in s. beans 1988, yields not taken.

Standard applications:

W. wheat: Manures: 'Nitram' at 410 kg. Weedkillers: Chlortoluron at 3.5 kg in 200 l. Fluroxypyr at 0.20 kg with isoproturon at 2.1 kg in 200 l.

Seed: W. wheat: Avalon, sown at 180 kg.
S. beans: Minden, sown at 200 kg.

Cultivations, etc.:-

Both crops: Ploughed: 24 Sept, 1987. Rotary harrowed: 5 Oct.

W. wheat: Seed sown: 5 Oct, 1987. Chlortoluron applied: 6 Nov. N applied: 14 Apr, 1988. Fluroxypyr and isoproturon applied: 26 Apr. Combine harvested: 23 Aug.

S. beans: Heavy spring-tine cultivated, rotary harrowed, seed sown: 11 Mar, 1988.

NOTE: Plant and soil samples were taken frequently during the season for assessment of take-all.

88/R/CS/212

GRAIN TONNES/HECTARE

***** Tables of means *****

PREVCROP

W8 W W	6.21
W1 W BE	6.61
BE BE W	7.43
W2 BE W	7.07
W8 BE W	7.07
W1 W W	6.79
W2 W W	6.82

Mean 6.86

*** Standard errors of differences of means ***

PREVCROP

0.438

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
---------	------	------	-----

BLOCK.WP	12	0.537	7.8
----------	----	-------	-----

GRAIN MEAN DM% 82.5

PLOT AREA HARVESTED 0.00291