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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%
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BLOCK.WP	12	0.537	7.8
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GRAIN MEAN DM% 82.5

PLOT AREA HARVESTED 0.00291