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

Rothamsted Research

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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
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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