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85/W/CS/99 Effects of Breaks on Take-all - W. Oats

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85/W/CS/99

EFFECTS OF BREAKS ON TAKE-ALL

Object: To study factors affecting the incidence of take-all (*Gaeumannomyces graminis*) and their effects on yields of s. cereals - Woburn, Butt Furlong.

Sponsor: D. Hornby.

The 14th year, w. oats.

For previous years see 72/W/CS/99(t) and 73-84/W/CS/99.

Design: 2 randomised blocks of 9 plots, 6 of which are split into 2.

Whole plot dimensions: 5.34 x 15.2.

Note: Yields were not taken and no new treatments were applied.

Standard applications: Manures: (5:14:30) at 340 kg. N at 120 kg as 'Nitro-Chalk' (27.5% N). Weedkillers: Methabenzthiazuron at 1.6 kg in 250 l. Clopyralid at 0.07 kg with bromoxynil octanoate at 0.34 kg and mecoprop at 2.5 kg in 250 l with the growth regulator. Growth regulator: Chlormequat on two occasions, on the first occasion (as 'Power 3 C' at 2.0 l) with the weedkillers, on the second occasion (as 'Power 3 C' at 4.2 l) with the fungicide. Fungicide: Tridemorph at 0.52 kg in 250 l.

Seed: Panema, sown at 160 kg.

Cultivations, etc.: - Discd: 18 Sept, 1984. Subsoiled, tines 142 cm apart, 56 cm deep, ploughed: 6 Oct. NPK applied: 15 Oct. Rotary harrowed, seed sown: 16 Oct. Methabenzthiazuron applied: 27 Oct. N applied: 16 Apr, 1985. Remaining weedkillers and growth regulator applied: 17 Apr. Fungicide and growth regulator applied: 26 May. Combine harvested: 22 Aug.