ROTHAMSTED RESEARCH

Yields of the Field Experiments 1976

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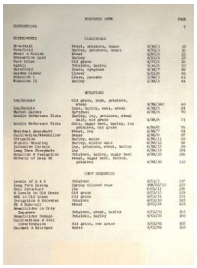

76/W/CS/184 Cereal Cyst Nematode Study - Oats

Rothamsted Research

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76/W/CS/184

CEREAL CYST NEMATODE STUDY

Object: To study the effects of formalin on cereal cyst nematode (Heterodera avenae) and the fungus Entomophthora - Woburn Butt Close.

Sponsor: T.D. Williams.

The first year, oats.

Design: 4 randomised blocks of 4 plots split into 4.

Whole plot dimensions: 2.13 x 21.0.

Treatments:

Whole plots: None (for treatment in 1977)

Sub plots

FORMALIN	Formalin:
0	None
3000 L	3000 l

NOTE: Because of severe drought the crop was almost a total failure and yields were not taken.

Basal applications: Manures: (20:14:14) at 380 kg combine drilled.
Weedkiller: Ioxynil at 0.58 kg with mecoprop at 1.7 kg in 340 l

Seed: Manod, sown at 190 kg.

Cultivations, etc.:- Heavy-tine cultivated: 30 Aug, 1975. Rotary cultivated: 1 Sept. Ploughed: 24 Sept. Spring-tine cultivated: 19 Jan, 1976. Formalin applied: 1 Mar. Spring-tine cultivated with crumbler attached, seed sown: 22 Mar. Weedkiller applied: 30 Apr. Combine harvested: 4 Aug. Previous crops: Wheat 1974, oats 1975.

NOTE: Soil samples were taken before treatments were applied, during the season and after harvest for cyst and egg counts of Heterodera avenae.

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