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Yields of the Field Experiments 1986

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86/R/CS/247

ORGANIC MATTER AND EARTHWORM INOCULATION

Object: To study the residual effects of inoculating earthworms into arable soil and adding organic materials on the breakdown of straw in the soil by soil animals - Hoosfield.

Sponsor: W. Powell.

The seventh year, s. barley.

For previous years see 80-85/R/CS/247.

Design: 3 randomised blocks of 9 plots.

Whole plot dimensions: 7.85 x 7.62.

Treatments: All combinations of:-

1. WORMINOC(80)	Earthworms and inoculation method for 1980 crop only:
NONE	None
	Earthworms (Lumbricus terrestris) applied at 16,700 per hectare in November 1979:
EVEN	Evenly spaced throughout
CONC	Concentrated in metre squares, 100 earthworms per square metre
2. ORG MATT(85)	Forms of organic matter applied until 1985:
NONE	None
STR	Straw at 6.50 t for 1980, 3.25 t for 1981 and 1982
STR+FYM	Straw at 6.50 t for 1980, 3.25 for 1981 and 1982 plus farmyard manure at 40 t for each year including 1985

NOTE: Yields were not taken in 1986.

Basal applications: Manures: 'Nitram' at 380 kg and later at 130 kg. Weedkillers: Clopyralid at 0.05 kg and bromoxynil octanoate at 0.24 kg with mecoprop at 2.1 kg applied with the fungicide in 200 l. Fungicide: Tridemorph at 0.52 kg.

Seed: Klaxon, sown at 160 kg.

Cultivations, etc.:- Ploughed: 22 Nov, 1985. First N applied: 26 Mar, 1986. Spring-tine cultivated, rotary harrowed, seed sown: 29 Apr. Second N applied: 7 May. Weedkillers and fungicide applied: 2 June. Combine harvested: 6 Sept.

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